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Attaining man's hopes in the atomic age, 1953.

CASE DIAMOND JUBILEE CONVOCAATION
ATTAINING MAN'S HOPES IN THE ATOMIC AGE

What Kind of Faith Will Serve Us Best?

Rabbi Abba Hillel Silver
The Temple
Cleveland, Ohio

~~Saturday, April 11, 1953~~

What kind of faith will serve us best? That which will sustain and inspire us ~~and~~
~~the generations to come~~ in the long, hard struggle to establish the good society. Such
a faith, in my judgment, is built upon three postulates; the reality of purpose in the
universe, the sovereignty of personality, and the sanctity of method. Within such a
faith man will find that measure of dignity, confidence and courage without which the
struggle for social progress cannot long be maintained.

We are speaking of faith, not of sure and adequate knowledge. We have no positive
and adequate knowledge upon which to base any satisfying philosophy of life and human
destiny. We must supplement what we know by a number of heroic projections of faith
which, while they outrun knowledge, experience and logical proof, are not refuted by
them and are indispensable to us in our enterprise on earth.

The inevitable limitations of faith are, in a sense, analogous to the limitations
of science, and no more constricting. There was a time when scientists were confident
that they would soon come upon the total solution for the riddle of the universe. It
was only a matter of time, they thought, only a matter of probing deeper and ever deeper,
and of adding one fact to another, until the required total has been reached, and then
men would know all that they wished to know.

In our generation, scientists are far less confident. The most erudite among them
freely acknowledge that objective reality may forever elude the intellectual grasp of
men. "In the evolution of scientific thought," writes one ~~eminent~~ scientist, "one fact
has become impressively clear; There is no mystery of the physical world which does not
point to a mystery beyond itself." Whichever way you look at the universe, it is always
a universe as conceived by man, and "man is his own greatest mystery."

But although man has been denied the knowledge of ultimate reality - the how and why of things - he is nevertheless permitted to learn much, very much about the relations which exist between things and forces in the universe. While he may never be able to understand the nature and origin of electricity or gravitation or magnetism, he may come to understand a great deal about their operation, and thus be enabled to use them to his advantage, and increase his power and his security in the world. Thus, even though scientific knowledge may never be absolute for man and the principle of indeterminacy may increasingly invade its domain, it nevertheless offers him a world of enterprise and meaning which can satisfy a purposeful and victorious scientific life.

This is true also of man's spiritual life. It is not within the range of man's capacity to learn the nature of God. Man can never understand the ultimate purpose and plan of creation, or discover the intrinsic character of a universe which he did not invent, but of which he is a part and a blend seemingly of all of its lowest and highest elements, and in which he is forever hoisting experimentally intellectual and spiritual antennae of divination in the hope of attracting and channelling some new truth and some wider vision. The great religious thinkers were the first to point out these impassable boundaries.

"Canst thou by searching find out God? Canst thou find out the limit of the Almighty?", Job is admonished. "Truly Thou art a God who hidest Thyself," declared Isaiah. Nevertheless, the faithful were constantly urged to seek God, and were promised that if they sought Him with all their heart and with all their soul, they would surely find Him - not Him, of course, ipsisimus, but the nearness of Him, the refuge of Him, the goodness of God.

Man was not left in utter darkness concerning those matters which affect his moral destiny in this unknowable universe. Much has been made known to him through the spiritual research of the seers and prophets of all ages, and through his own experience, and the illuminative and revealing process continues apace. Man can learn much about the

operation of God's laws of justice, love, truth and selflessness, and living by these laws, he may prosper.

Thus, within a hard, unyielding framework of the unknown and the unknowable, there is yet a vast world of ascertainable moral truth and of opportunities for moral and spiritual growth wherein man can find a challenge to his noblest ambitions, as well as deep satisfactions. ||

The faith which will serve us best has as one of its dynamic hypotheses the reality of purpose. Somewhere Professor Einstein writes: "What is the meaning of human life or of organic life altogether? To answer this question at all implies a religion. Is there any sense then, you ask, in putting it? I answer, the man who regards his own life and that of his fellow creatures as meaningless is not merely unfortunate, but almost disqualified for life."

As man develops in awareness of himself, of his society and of the material world about him, and gains in sensitiveness and comprehension, he acquires also glimpses into the unfoldment of purpose in the universe. He comes to sense what the Prophet Isaiah sensed when he declared: "He is a God Who created the world not for chaos, and formed it to be inhabited." The order of nature is purposive. Like all human insights into fundamentals, this conviction of purpose and meaning is not clear beyond any peradventure of doubt. It is seen as through a glass darkly, but it is sufficiently persuasive, and responsive to basic human needs to be enheartening and strengthening.

Addressing the Harvard Law School Association of New York back in 1913, Justice Oliver Wendell Holmes gave expression to just such a strong, albeit indeterminate mystic conviction: "I think it is not improbable that man, like the grub that prepares a chamber for the winged thing it never has been but is to be, - that man may have cosmic destinies that he does not understand. And so beyond the vision of battling races and an impoverished earth, I catch a dreaming glimpse of peace." And he voiced his faith "in a universe not measured by our fears", but one "that has thought and more than thought inside of it."

All mechanical interpretations of the universe break down in the presence of "this thought and more than thought", and the phenomena of order, of life, of mind, the evolution of man and the mounting quality of his ideals and values. Even dead matter itself defies such a cramped interpretation. Science seems to have abandoned in our day all purely mechanistic explanations of the universe. A confident ^{belief} ~~faith~~ in an unfolding, beneficent purpose in the universe, of which we and our struggles and our aspirations are an integral part, is an essential ingredient of that faith which will serve us best in the building of the good society and in the attainment of man's hopes. It is the conviction of purpose which alone can bridge for man the frightening gulf between his isolated and homeless self and the apparently alien and indifferent world about him. Man will feel at home in the cosmos only if he believes that it is his Father's house. "Lord, Thou hast been our dwelling place. . ." Without this faith, he will fall victim to one or another form of moral nihilism as his mind comes to the edge of the wilderness. //

Faith in the worth and sovereignty of the individual and of human personality is another essential element of that faith which will serve us best.

In one of his recently published "Unpopular Essays", Bertrand Russell writes: "The importance of Man, which is the one indispensable dogma of the theologians, receives no support from a scientific view of the future of the solar system." To which one is prompted to reply, so much the worse for this scientific view, which doubtless will go through many revisions and corrections in the future, as it has in the past. Time and again, science has been tardy in arriving at conclusions which the intuitive religious genius of mankind postulated long before. Furthermore, there are religious convictions which science can ^{neither} ~~never~~ affirm or deny.

But Bertrand Russell is entirely correct when he states that "the importance of Man is the one indispensable dogma of the theologians." It is also the one indispensable dogma of democracy; and it is at the heart of the terrible crisis which is tearing our world apart today.

To the great religions of the Western world, man has immense significance in the scheme of things. Man is very important to God in the unfoldment of His purposes - each man, every man, rich or poor, simple or wise, black or white, saint or sinner. Sin is abandonment of status, degradation, voluntary descent into unworthiness and paltriness.

The moral law which religion proclaims demands much of man in terms of duty and sacrifice, but it gives much to him in terms of high and independent status, dignity and inalienable rights. "Every man has the right to say," declared an ancient teacher of Israel, "'for my sake was the whole world created'," and another teacher declared that "man is a co-worker of God in creation."

Religion has endeavored to give man a sense of greatness in a universe in which he is very small. The world of the ancients was, of course, far smaller in scale than our world of expanding immensities - "one hundred thousand million galaxies in space and each galaxy containing on an average of one hundred thousand million stars," where-ⁱⁿ man's racial history is less than a moment in geologic time. Yet, even in relation to their vastly smaller universe, man appeared pitifully puny, lost and unimportant. "When I look at Thy heavens," declared the Psalmist, "the work of Thy fingers, the moon and the stars which Thou hast established - what is man that Thou art mindful of him, and the son of man that Thou dost care for him?"

But no moral aspiration is possible and can be looked for in man as long as he regards himself as insignificant and of little account. No moral aspiration ever springs from the soil of disesteem. Hence, the Psalmist climaxes his hymn with an apostrophe to man's unique distinction, his inherent sovereignty and the assurance of his worth in the world which God created for him. "Yet hast Thou made him little less than God, and hast crowned him with glory and honor. Thou hast given him dominion over the works of Thy hands; Thou hast put all things under his feet." Man's nobility derives from kinship with God, and it is his high and noble estate which imposes upon him

the obligations to seek perfection. "Be ye holy for I, the Lord your God, am holy!" "Think not meanly of yourself," declared the famous philosopher Maimonides, "and despair not of perfection."

Our civilization today lacks compassion and mercy because man is contemned. He is seldom thought of as an end in himself, but as a tool for something or someone else - the state, the party, the system - to be used, abused, broken, and cast aside.

One of the major social problems of all time has been how to save men from group tyranny whilst preserving the heritage and the continuity of the group. In other words, how to insure the fullest expression of the individual without destroying the necessary political organization and social control.

In primitive society the individual counted for very little. The tribe was monolithic. Its solidarity was paramount. His ideas and actions were rigidly regulated by the tribal code and taboos. There was little room in this compact world of mass structure and corporate action for the individualist, the rebel, the non-conformist.

Life moved on. The despotism of the organized group was slowly attenuated. The individual began to discover his own private life. Within himself he had come upon a world distinct in many ways from the world about him. As against his heritage of mass tradition, he became aware of personal sources of judgment and sanction.

Within the last five hundred years, three great movements in European civilization accentuated (still further) the primacy of the individual over the group. The first movement was the Renaissance. The second was the Protestant Reformation. The third were the American and French Revolutions. In each of these revolutionary movements in human thought, the individual man's claims emerged triumphant, whether it was his intellectual claim to speculative freedom against the tyranny of philosophic and scientific tradition or his religious claim to spiritual autonomy against the tyranny of ecclesiastic dogmatism, or his political claim to political sovereignty against the tyranny of autocratic government and the dynastic state.

But man's hard-won victories against the usurping corporate authority are never permanently secure. We witnessed in our own life-time the most massive and ruthless onslaught of "Gleichschaltung", of "Verfassung", and of totalitarianism ever experienced by man within historic times. Fascism and Nazism scored terrifying victories before they were broken on the battlefield, but their ideologies are not dead. And communist dictatorship is today established in a fourth of the globe.

Our age makes little of the individual. His personal life is not very important. Men are handled impersonally in the mass. Increasingly they are becoming statistics in the hands of a predatory collectivism. They are coordinated and subjugated to the state until the last vestige of their freedom and their rights vanishes. Every precinct of man's life is invaded and violated. Having denied to man the image of God, he has been given the mask of the robot.

The faith that will serve us best, as free men, is faith in the worth of the individual, his inviolate personality, and his inalienable rights. Without such faith which was written as a dogma into the heart of our Declaration of Independence and our Constitution, man's stature will be progressively reduced, the free domains of his mind and spirit will speedily come under iron-clad controls, accelerated by the organizational efficiency of our technological age, and man's dignity will be dragged into the dust. With such a faith, we will be strong enough to accept all necessary social and economic controls and still remain a free society. It will help us to set a true course by a dependable compass. //

The third element in the faith which will serve us best is faith in the sanctity of method - the method of human progress.

Prophetic religion defined a method by which men might attain morally desirable ends, a method worthy of such ends. It outlawed the notion that moral ends justify immoral means. Each single step on the way toward the realization of a worthy objective must be a worthy objective in itself. ^{Means} ~~Means~~ have a way of inserting and of integrating themselves into ends, and of determining their ultimate pattern. Therefore, to

establish justice or freedom or peace, men must employ the ways of justice, freedom, and peace.

The more exalted human goals are, the less likelihood there is of their early or complete attainment. Accordingly, when ruthless, brutal and desperate measures are employed, they not only make the attainment of these goals impossible; they also turn man's long journey towards them into one of unmitigated misery and horror.

The method which prophetic religion was careful to define called for the acceptance of a supreme moral law of justice tempered by love, which was binding at all times upon all men individually and collectively. "The good way" called for a curbing of all unlimited power, and the rejection of all irresponsible authority. No man and no government and no class is ever above the moral law.

The classic way of religion has never been fully tried in the world. Today in an evolving atomic age wherein man's power is being vastly augmented, including his power of self-destruction, it is being ignored more thoroughly than at any time in human history. ~~State and class autocracies have proceeded on the theory that there is no law superior to theirs, and that their brutal methods are justified by results.~~

The economic life of man has resolved itself into a bitter class struggle. Each class is resorting without hesitancy or compunction to methods of violence, suppression and war. Each class justifies its tactics in the name of some great human ideal. The shame of our age is that men are committing the most shameless acts of immorality in the name of high morality. Men talk of justice and brotherhood, of a classless society and universal peace, but they act as if these ideals were demons out of hell, lashing them on to the most horrible acts of injustice, hatred, and violence. Propaganda

For our civilization to survive, it is clearly necessary to revise this mood and thought pattern of our age, and to recharge our world culture with a new devotion to the sanctity of the only true method of human progress.

has displaced education in many parts of the world and espionage, subversion, torture and liquidation seem to be the 20th century surrogate for Moses' "Love thy Neighbor as thyself" and Jesus' "Love your enemies and pray for those who persecute you."

What I have said concerning the kind of faith which will serve us best may be restated in more familiar terms. But I believe that they all add up to the same thing.

The faith that will serve us best, one which will lift burdens from our hearts, as science will lift burdens from our backs, is the belief that there is a God indwelling in all nature, and yet transcending it, near to man in all his needs and yet beyond man's comprehension; that man is fashioned out of the earth but is nevertheless made in the spiritual image of God; that bound as he is by his physical and mental limitations, he is nevertheless unbounded in his moral aspirations and is free to determine his own spiritual progress; that both body and soul are of God and that the whole of man - body, mind and soul - is sacred; that all men are equal in their essential humanity, and that there is but one moral law for all; that life is good and is a gracious gift of God; and that the evil which exists in the world can, in large measure, be overcome and in the overcoming of it lies the very meaning and adventure of human life; that progress is real even if not uninterrupted; that a golden age of universal justice, brotherhood and peace awaits the human race and can be hastened by the efforts of the human race; and that man's spiritual concern should be primarily with life this side of the grave since "the hidden things belong to God but the things that are revealed belong to us and to our children."

With such a faith we can spread wide our adventuring sails, and plow resolutely into the surge and thunder of our unpredictable Odyssey, confident that our high hopes will, from time to time, find their blessed anchorage in some harbor of our hearts' desire.

crowd the canyons
We need fear no truth which reaches us from whatever source, from whatever laboratory. It can only enlarge man's domain. We need fear no machine or invention which lessens man's labor and reduces his poverty, scarcity and poverty. There is danger only when man calls the work of his hands his gods and worships that which his art, progress have wrought. Then, indeed, is man humbled and brought low and driven to seek shelter in yonder crowd, caves and in the clefts of the rocks from the fury and terror which he himself has unleashed, just as our proud civilization has begun to do in an day.

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What Kind of Faith Will Survive vs. Part 2

THIS IS WHAT WE MUST DO

by

Dr. Abba Hillel Silver,
The Temple, Cleveland, Ohio.

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6/7/53

My dear friends: This age in which we live is a truly great age, one of the greatest in human history. We are too near our times properly to appraise them. (One requires distance in order to see great objects in their proper perspective.) We ourselves are too much involved in the turmoil, the fears, and the conflicts of our day to see objectively the amazing new pattern of life which is emerging. (In a generation or two, when mankind will have entered quieter waters and a period of consolidation will have followed this explosive and revolutionary age of ours, men will be able to look back upon it and evaluate it properly.)

Many people today are filled with dark forebodings and are quite pessimistic about our times. They are quick to describe them as materialistic, as lacking in idealism, in aim and purpose, and as drifting helplessly to disaster.

This mood is prevalent not alone among religious leaders, but also among laymen in all walks of life. A mood of crisis is abroad in our world and there is fear in the hearts of men. Men talk of economic collapse, of a third world war, of an irrepressible conflict between the East and the West which will completely shatter our civilization.

There are very few people who see this age of ours as a great age. I am persuaded that it is truly a great age. ~~There is ground, of course, for very grave concern about all that is happening in our world today, but there is no reason for despair.~~ Great and historic things are coming to pass in our day. I am not thinking at the moment of the new worlds which science is continually disclosing, the new insights into the nature of matter and energy, the new sources of power and wealth, the methods of production, distribution, transportation and communication. I am not referring to the amazing progress in the medical sciences which has so markedly improved the health of the human race and increased the average length of life, nor to the marvels of engineering and the miracles of construction all over the globe. Inventions and discoveries come in such rapid succession in our day that they no longer excite any unusual comment. We take it all in our stride--the flying age, the television age, the atomic age--and what next? The inter-planetary age, perhaps. Certainly, man is achieving in our day in the scientific fields more in a decade than in a hundred years heretofore.

In characterizing our age as great, I am thinking in terms of social progress and welfare, in terms of human advancement and civilization. More is being done in our day for the improvement of the conditions of the life of the common man, for the raising of his standard of living, his health, his education, and for his protection against the disabilities of sickness, unemployment

and old age, then in any generation, then in any five generations in the past. Never were peoples and governments so much concerned with the improvement of the lives of the forgotten men, ~~the exploited and the downtrodden,~~ who had lived in unrelieved and unspeakable poverty, ignorance and disease through the long and wary centuries. Never were more determined efforts made to bring about a fairer sharing of the wealth that is produced and a better way of life for all.

Never have the submerged races and peoples of the earth, who for centuries groaned under foreign or native tyranny, risen as they have risen in our day to demand and to achieve, as they have, to a large measure achieved, freedom and self-determination. Within the last ~~and~~ years one-fourth of the earth's population-- more than five hundred million non-self-governing people-- have obtained their political freedom. Imperialism and colonialism are in their death-throes. Backward peoples are pressing forward into the light of a new day, and the exploitation of the dark races of the earth is rapidly drawing to a close.

What we are witnessing in our day, if we have eyes not only to see things but to see into the heart of things, is not social disintegration, but a radical new reintegration of humanity, a profound change in the social evolution of man, a change not free, of course, from dangers, but one of boundless and immeasurable potentialities.

I do not wish to overdraw the picture. I am not suggesting that ~~our age is approaching livable perfection~~, or that the millennium is just around the corner. There is not a spot on the face of the globe today where ~~just~~ social wrongs and injustices do not exist, and where the masses of mankind are not, to a greater or lesser degree, still underprivileged and disadvantaged. There is no country on earth which is altogether free from class conflict, from bigotry, intolerance, slums and privation. It will take centuries, not decades or generations, before all the peoples of the world will possess even that measure of well-being, far from the optimum, which ~~some~~ ^{WRMS} of the most favored peoples of the world already possess.

The important thing to consider, however, is not whether we are on the eve of the millennium, but whether the major trends of our age are in the direction of the hoped-for good society, or away from it. Is ~~is~~ ^{our age} *purposefully* trying to eradicate poverty and illiteracy and to raise the standard of living of all peoples, regardless of race or color or creed? Is it trying to satisfy the legitimate aspirations of peoples to national freedom and independence? Is it trying to organize the world for peace and for international cooperation? I believe that in all these major trends, our age has given welcome evidence of great determination and of considerable progress. It is moving purposefully in the right direc-

tion--the abolition of war, the reduction of poverty, and the elimination of racial inequality. These are the three major trends of our century. (S.H.P.)

It is because we are working in the right direction towards fulfilment and not towards defeat that the work of such an organization as the National Conference of Christians and Jews is so full of promise. It is definitely within the emergent patterns of the new day, and it is helping to realize it in ^{one of the} very significant and critical areas of our common life. (S.H.P.)

② Destiny has singled out our own beloved country, ✓ the foremost democracy on earth, to give leadership to the world today and to lead mankind out of the grave social, political and economic predicaments in which it finds itself. This is the American century (in the same sense as the nineteenth century was the century of Great Britain). I believe that American leadership can prove itself equal to the challenge if it will take counsel of faith and not of fear, and will be guided by the prophetic insights and wide perspectives of the founding fathers of our Republic. We are not unequipped for the task of leadership. We are not wanting in strength, in experience, or in traditions.

But to lead successfully we must look to our own defenses at home. We must remain free at home, and solvent and civically uncorrupted. If our own free institutions

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WHAT KIND OF FAITH WILL SERVE US BEST?

Rabbi Abba Hillel Silver
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Cleveland, Ohio

then in this great age?

What kind of faith will serve us best? That which will sustain and inspire us ~~and the generations to come~~ *towards which we wish to move* in the long, hard struggle to establish the good society. Such a faith, in my judgment, is built upon three postulates; ~~or assumed validities~~: the reality of purpose in the universe, the sovereignty of personality, and the sanctity of method. Within such a faith man will find that measure of dignity, confidence and courage without which the struggle for social progress cannot long be maintained and the promise of human life must be abandoned to defeat.

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The inevitable limitations of faith are, in a sense, analogous to the limitations of science, and no more constricting, "just as the substance envisaged in science," to quote Santayana, "and that envisaged in religion have always been the same. The paths of discovery are different, but, if they convey true knowledge, they must ultimately converge upon the same facts, on the same ground of necessity in things." There was a time when scientists were confident that they would soon come upon the total solution for the riddle of the universe. It was only a matter of time, they thought, only a matter of probing deeper and

noblest ambitions, as well as deep satisfactions.

The faith of which I speak which will serve us best has as one of its dynamic hypotheses the reality of purpose. Somewhere Professor Einstein writes: "What is the meaning of human life or of organic life altogether? To answer this question at all implies a religion. Is there any sense, then, you ask, in putting it? I answer, the man who regards his own life and that of his fellow creatures as meaningless is not merely unfortunate, but almost disqualified for life."

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Addressing the Harvard Law School Association of New York back in 1913, Justice Oliver Wendell Holmes gave expression to just such a strong, mystic, albeit indeterminate conviction: "I think it is not improbable that man like the grub that prepares a chamber for the winged thing it never has been but is to be, - that man may have cosmic destinies that he does not understand. And so beyond the vision of battling races and an impoverished earth, I catch a dreaming glimpse of peace." And he voiced his faith "in a universe not measured by our fears", but one "that has thought and more than thought inside of it."

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All mechanical interpretations of the universe break down in the presence of "this thought and more than thought", and the phenomena of order, of life, of mind, the evolution of man and the mounting quality of his ideals and values. Even dead matter itself defies such a cramped interpretation. Science seems to have abandoned in our day all purely mechanistic explanations of the universe. A confident faith in a controlling and beneficent purpose, unfolding in the universe, of which we and our struggles and our aspirations are an integral part is, in my judgment, an essential ingredient of that faith which will serve us best in the ^{long struggle for the} building of the good society and ~~in~~ the attainment of man's hopes. It is the conviction of purpose which alone can bridge for man the gulf between his isolated and homeless self and the apparently alien and indifferent world about him. Man will feel at home in the cosmos only if he believes that it is his Father's house. "Lord, Thou hast been our dwelling place ..." Without this faith, he will fall victim to one or another form of moral nihilism as his mind comes to the edge of the wilderness.

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~~The universal moral law which~~ Religion ~~proclaims~~ demands much of man in terms of duty and sacrifice, but it gives much to him in terms of high and independent status, dignity and inalienable rights. "Every man has the right to say," declared an ancient teacher of Israel, "'for my sake was the whole world created'," and another teacher declared that "man is a co-worker of God in creation."

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Thou hast established - What is man that Thou are mindful of him, and the son of man that Thou dost care for him?"

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~~Because man has come to be regarded in our day as unimportant and possessed of no inherent and inalienable rights, it has been possible for usurping political parties and governments ruthlessly to expropriate and exterminate whole classes of people of whose political and economic views they did not approve. Our civilization today lacks compassion and mercy because man is contemned. He is seldom thought of as an end in himself, but as a tool for something or someone else -- the state, the party, the system -- to be used, abused, broken, and cast aside.~~

One of the major social problems of all time has been how to save men from group tyranny whilst preserving the heritage and the continuity of the group. In other words, how to insure the fullest expression of the individual without destroying the necessary political organization and social control.

In primitive society the individual counted for very little. The tribe was monolithic. Its solidarity was paramount. The individual was absorbed. ~~He borrowed his ideology from his tribe. His actions were rigidly regulated by the tribal code and taboos. The deity whom he worshipped was the tribal deity. There were decided advantages to this arrangement. The individual was sheltered and protected, and if need be, avenged by his group. He felt secure in belonging to a group which was dominated by a compelling sense of mutual dependence and responsibility. The growth of the individual, however, was stunted. There was little room in this compact world of mass structure and corporate action for the individualist, the rebel, the non-conformist. Beyond the boundaries of his tribal home, even his gods dared not venture.~~

Life moved on. The despotism of the organized group was slowly attenuated. The individual began to discover his own private life. Within himself he had come upon a world distinct in many ways from the world about him. As against his heritage of mass tradition, he became aware of personal sources of judgment and sanction.

included Within the last five hundred years three great movements in European civilization accentuated still further the primacy of the individual over the group. The first movement was the Renaissance. The second was the Protestant Reformation. The third were the American and French Revolutions. // In each of these revolutionary movements in human thought, man's claims emerged triumphant, whether it was his intellectual claim to speculative freedom against the tyranny of philosophic and scientific tradition or his religious claim to spiritual autonomy against the tyranny of ecclesiastic hierarchy, or his political claim to political sovereignty against the tyranny of autocratic government and the dynastic state.

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-9-

But man's hard-won victories against the usurping corporate authority are never permanently secure. We witnessed in our life-time the most massive and ruthless onslaught of "Gleichschaltung", of "Vermassung" and of totalitarianism ever experienced by man within historic times. Fascism and Nazism scored terrifying victories before they were broken on the battlefield, but their ideologies are not dead. And communist dictatorship is today established in a fourth of the globe.

Our age ^{may be endangering} ~~makes little~~ of the individual. ~~His personal life is not very~~ ^{being} ~~important.~~ Men are handled impersonally in the mass. Increasingly they are becoming statistics in the hands of a predatory collectivism. They are shunted about like herds of cattle. ~~They are slaughtered in the millions.~~ They are coordinated and subjugated ^{in many hands & works} to the state until the last vestige of their freedom and their rights vanishes. ~~Because~~ the religious basis of our society has been denied, and materialistic theories of life and history have taken hold of the thoughts and actions of men and governments, the stature of the individual, and with it, his rights and inherent dignity have suffered tragic abatement and diminution in our day. Every precinct of his life is invaded and violated. Having denied to man the image of God, he ^{is being} ~~has been~~ given the mask of the robot. ~~The~~ ~~most endangered person in the world today is the man who thinks for himself. The~~ ~~eagerly awaited 'people's century' has unfortunately become the century of the~~ ~~secret police.~~

in the great age

The faith that will serve us best, as free men, is faith in the worth and significance of the individual, his inviolate personality, and his inalienable rights. Without such faith which was written as a dogma into the heart of our Declaration of Independence and our Constitution, ^{"We hold"} man's stature will be progressively reduced, the free domains of his mind and spirit will speedily come under

iron-clad controls, accelerated by the organizational efficiency of our technological age, and man's dignity will be dragged into the dust. With such a faith, we will be strong enough to accept all necessary social and economic controls and still remain a free society. It will help us to set our course by a dependable compass.

The third element in the faith which will serve us best is faith in the sanctity of method -- the method of human progress.

One of the essential contributions of prophetic religion to human progress has been the concept of method. There is not only God and the Good Life; there is also the true way which alone leads from one to the other.

Prophetic religion defined a method by which men might attain morally desirable ends, a method worthy of such ends. It outlawed the notion that moral ends justify immoral means. Each single step on the way toward the realization of a worthy objective must be a worthy objective in itself. Means have a way of inserting and of integrating themselves into ends, and of determining their ultimate pattern. Therefore, to establish justice or freedom or peace, men must employ the ways of justice, freedom, and peace.

The more exalted human goals are, the less likelihood there is of their early or complete attainment. Accordingly, when ruthless, brutal and desperate measures are employed, they not only make the attainment of these goals impossible; they also turn man's long journey towards them into one of unmitigated misery and horror.

The method which prophetic religion was careful to define called for the acceptance of a supreme moral law of justice tempered by love, which was binding at all times upon all men individually and collectively. "The good way" called for a curbing of all unlimited power, and the rejection of all irresponsible authority. No man and no government and no class is ever above the moral law.

The classic way of religion has never been fully tried in the world. Today in an evolving atomic age wherein man's power will be vastly augmented, including the power of self-destruction, it is being ignored more thoroughly than at any time in human history. State and class autocracies have proceeded on the theory that there is no law superior to theirs, and that their brutal methods are justified by their results.

~~The economic life of man has resolved itself into a bitter class struggle. Each class is resorting without hesitancy or compunction to methods of violence, suppression and war. Each class justifies its tactics in the name of some great human ideal.~~ The shame of our age is that men are committing the most shameless acts of immorality in the name of high morality. Methods which are abhorred and denounced in one's opponents are rationalized and justified as moral imperatives when employed by oneself. Men talk of justice and brotherhood, of a classless society and universal peace, but they act as if these ideals were demons out of hell, lashing them on to the most horrible acts of injustice, hatred, and violence.

For our civilization to survive, it is clearly necessary to revise this mood and thought pattern of our age, and to recharge our world culture with a new devotion to the sanctity of the only true method of human progress.

What I have said concerning the kind of faith which will serve us best may be re-stated in more familiar terms. But I believe that they all add up to the same thing. The faith that will serve us best is the belief that there is a God indwelling in all nature, and yet transcending it, near to man in all his needs and yet beyond man's comprehension; that man is fashioned out of the earth but is nevertheless made in the spiritual image of God; that bound as he is by his physical and mental limitations, he is nevertheless boundless in his moral aspirations and is free to determine his own spiritual progress; ~~that both body and soul are of God and that the whole of man - body, mind and soul - is sacred;~~

in this great age of ours people are looking for answers

that all men are equal in their essential humanity and that there is but one moral law for rich and poor, ruler and subject, native-born and stranger; that life is good and is a gracious gift of God; and that the evil which exists in the world can be overcome and in the overcoming of it lies the very meaning and adventure of human life; that progress is real even if not uninterrupted; that a golden age (of universal justice, brotherhood and peace) awaits the human race and can be hastened by the efforts of the human race; ~~that there is reward for goodness in time and in eternity, and that man's spiritual concern should be with life this side of the grave since "the hidden things belong to God but the things that are revealed belong to us and to our children."~~

With such a faith we can spread wide our adventuring sails and plow resolutely into the surge and thunder of our unpredictable odyssey, confident that our high hopes will, from time to time, find their blessed anchorage in some harbor of our hearts' desire.

WHAT KIND OF FAITH WILL SERVE US BEST?

By
Dr. Abba Hillel Silver
The Temple
Cleveland, Ohio

53-9
Iowa Commencement
June 12, 1953

My dear friends: This age in which we live is a truly great age, one of the greatest in human history. We are too near our times properly to appraise them. One requires distance in order to see great objects in their proper perspective. We ourselves are too much involved in the turmoil, the fears, and the conflicts of our day to see objectively the amazing new pattern of life which is emerging. In a generation or two, when mankind will have entered quieter waters and a period of consolidation will have followed this explosive and revolutionary age of ours, men will be able to look back upon it and evaluate it properly.

Many people today are filled with dark forebodings and are quite pessimistic about our times. They are quick to describe them as materialistic, as lacking in idealism, in aim and purpose, and as drifting helplessly to disaster.

There are very few people who see this age of ours as a great age. I am persuaded that it is truly a great age. Great and historic things are coming to pass in our day. I am not thinking at the moment of the new worlds which science is continually disclosing, the new insights into the nature of matter and energy, the new sources of power and wealth, the methods of production, distribution, transportation and communication. I am not referring to the amazing progress in the medical sciences which has so markedly improved the health of the human race and increased the average length of life, nor to the marvels of engineering and the miracles of construction all over the globe. Inventions and discoveries come in such rapid succession in our day

that they no longer excite any unusual comment. We take it all in our stride - the flying age, the television age, the atomic age - and what next? The inter-planetary age, perhaps. Certainly, man is achieving in our day in the scientific fields more in a decade than in a hundred years heretofore.

In characterizing our age as great, I am thinking in terms of social progress and welfare, in terms of human advancement and civilization. More is being done in our day for the improvement of the conditions of the life of the common man, for the raising of his standard of living, his health, his education, and for his protection against the disabilities of sickness, unemployment and old age, than in any generation - than in any five generations in the past. Never were peoples and governments so much concerned with the improvement of the lives of the forgotten men, who had lived in unrelieved and unspeakable poverty, ignorance and disease through the long and weary centuries. Never were more determined efforts made to bring about a fairer sharing of the wealth that is produced and a better way of life for all.

Never have the submerged races and peoples of the earth, who for centuries groaned under foreign or native tyranny, risen as they have risen in our day to demand and to achieve, as they have to a large measure achieved, freedom and self-determination. Within the last eight years one-fourth of the earth's population - more than five hundred million non-self-governing people - have obtained their political freedom. Imperialism and colonialism are in their death-throes. Backward peoples are pressing forward into the light of a new day, and the exploitation of the dark races of the earth is rapidly drawing to a close.

What we are witnessing in our day, if we have eyes not only to see things but to see into the heart of things, is not social disintegration, but a radical new reintegration of humanity, a profound change in the social evolution of man, a change not free, of course, from dangers, but one of boundless and immeasurable potentialities.

I do not wish to overdraw the picture. I am not suggesting that the millenium is just around the corner. There is not a spot on the face of the globe today where social wrongs and injustices do not exist, and where the masses of mankind are not, to a greater or lesser degree, still underprivileged and disadvantaged. There is no country on earth which is altogether free from class conflict, from bigotry, intolerance, slums and privation. It will take centuries, not decades or generations, before all the peoples of the world will possess even that measure of well-being, far from the optimum, which some of the most favored peoples of the world already possess.

The important thing to consider, however, is not whether we are on the eve of the millenium, but whether the major trends of our age are in the direction of the hoped-for good society, or away from it. Is our age purposefully trying to eradicate poverty and illiteracy and to raise the standard of living of all peoples, regardless of race or color or creed? Is it trying to satisfy the legitimate aspirations of peoples to national freedom and independence? Is it trying to organize the world for peace and for international cooperation? I believe that in all these major trends, our age has given welcome evidence of great determination and of considerable progress. It is moving purposefully in the right direction - the abolition of war, the reduction of poverty, and the elimination of racial inequality. These are the three major trends of our century.

What kind of faith then will serve us best in this great age? That which will sustain and inspire us in the long, hard struggle to establish this good society towards which we wish to move. Such a faith, in my judgment, is built upon three postulates: the reality of purpose in the universe, the sovereignty of personality, and the sanctity of method. Within such a faith man will find that measure of dignity, confidence and courage without which the struggle for social progress cannot long be maintained and the promise of human life must be abandoned to defeat.

Somewhere Professor Einstein writes: "What is the meaning of human life or of organic life altogether? To answer this question at all implies a religion. Is there any sense, then, you ask, in putting it? I answer, the man who regards his own life and that of his fellow creatures as meaningless is not merely unfortunate, but almost disqualified for life."

As man develops in awareness of himself, of his society and of the material world about him, and gains in sensitiveness and comprehension, he acquires also glimpses into the unfoldment of purpose in the universe. He comes to sense what the Prophet Isaiah sensed when he declared: "He is a God Who created the world not for chaos, and formed it to be inhabited." The order of nature is purposive! Like all human insights into fundamentals, this conviction of purpose and meaning is not clear beyond any peradventure of doubt. It is seen as through a glass darkly, but it is sufficiently persuasive and responsive to basic human needs to be enheartening and strengthening.

Addressing the Harvard Law School Association of New York back in 1913, Justice Oliver Wendell Holmes gave expression to just such a strong, mystic, albeit indeterminate conviction: "I think it is not improbable that man, like the grub that prepares a chamber for the winged thing it never has been but is to be - that man may have cosmic destinies that he does not understand.

And so beyond the vision of battling races and an impoverished earth, I catch a dreaming glimpse of peace." And he voiced his faith "in a universe not measured by our fears", but one "that has thought and more than thought inside of it."

All mechanical interpretations of the universe break down in the presence of "this thought and more than thought", and the phenomena of order, of life, of mind, the evolution of man and the mounting quality of his ideals and values. Even dead matter itself defies such a cramped interpretation. Science seems to have abandoned in our day all purely mechanistic explanations of the universe. A confident faith in a controlling and beneficent purpose, unfolding in the universe, of which we and our struggles and our aspirations are an integral part is, in my judgment, an essential ingredient of that faith which will serve us best in the long struggle for the building of the good society and the attainment of man's hopes. It is the conviction of purpose which alone can bridge for man the gulf between his isolated and homeless self and the apparently alien and indifferent world about him. Man will feel at home in the cosmos only if he believes that it is his Father's house. "Lord, Thou hast been our dwelling place. . ." Without this faith, he will fall victim to one or another form of moral nihilism as his mind comes to the edge of the wilderness.

Faith in the worth and sovereignty of the individual and of human personality is another essential element of that faith which will serve us best.

In one of his recently published "Unpopular Essays", Bertrand Russell writes: "The importance of Man, which is the one indispensable dogma of the theologians, receives no support from a scientific view of the future of the solar system." To which one is prompted to reply, so much the worse for the so-called scientific view, which doubtless will go through many revisions and

corrections in the future, as it has in the past. Time and again science has been tardy in arriving at conclusions which the intuitive religious genius of mankind postulated long before.

But Bertrand Russell is entirely correct when he states that "the importance of Man is the one indispensable dogma of the theologians." It is also the one indispensable dogma of democracy; and it is at the heart of the terrible crisis which is tearing our world apart today.

To the great religions of the Western world, man has immense significance in the scheme of things. Man is very important to God in the unfoldment of His purposes - each man, every man, rich or poor, wise or simple, black or white, saint or sinner. Sin is voluntary abandonment of status, degradation, descent into unworthiness and paltriness. Man must live and act always as if his life were tremendously significant.

Religion demands much of man in terms of duty and sacrifice, but it gives much to him in terms of high and independent status, dignity and inalienable rights. "Every man has the right to say," declared an ancient teacher of Israel, "'for my sake was the whole world created'," and another teacher declared that "man is a co-worker of God in creation."

Religion has endeavored to give man a sense of greatness in a universe in which he is very small. The world of the ancients was, of course, far smaller in scale than our world of expanding immensities - "one hundred thousand million galaxies in space and each galaxy containing on an average of one hundred thousand million stars," wherein man's racial history is less than a moment in geologic time. Yet, even in relation to their vastly smaller universe, man appeared pitifully puny, lost and unimportant. "When I look at Thy heavens," declared the Psalmist, "the work of Thy fingers, the moon

and the stars which Thou hast established - What is man that Thou art mindful of him, and the son of man that Thou dost care for him?

But no moral aspiration is possible and can be looked for in man as long as he regards himself as insignificant and of little account. No moral aspiration ever springs from the soil of belittlement and disesteem. Hence, the Psalmist climaxes his hymn with an apostrophe to man's unique distinction and to his inherent sovereignty and the assurance of his worth in the world which God created for him. "Yet hast Thou made him little less than God, and hast crowned him with glory and honor. Thou hast given him dominion over the works of Thy hands; Thou hast put all things under his feet." Man's nobility derives from kinship with God, and it is high and noble estate which imposes upon him the obligations of heaven-soaring aspirations. "Be ye holy for I, the Lord your God, am holy." "Think not meanly of yourself," declared the famous philosopher Melancthon, "and despair not of perfection."

One of the major social problems of all time has been how to save men from group tyranny whilst preserving the heritage and the continuity of the group. In other words, how to insure the fullest expression of the individual without destroying the necessary political organization and social control.

In primitive society the individual counted for very little. The tribe was monolithic. Its solidarity was paramount. The individual was absorbed. His actions were rigidly regulated by the tribal code and taboos. There was little room in this compact world of mass structure and corporate action for the individualist, the rebel, the non-conformist.

Life moved on. The despotism of the organized group was slowly attenuated. The individual began to discover his own private life. Within himself he had come upon a world distinct in many ways from the world about him. As against his heritage of mass tradition, he became aware of personal sources of judgment and sanction.

Within the last five hundred years three great movements in European civilization accentuated still further the primacy of the individual over the group. The first movement was the Renaissance. The second was the Protestant Reformation. The third were the American and French Revolutions.

But man's hard-won victories against the usurping corporate authority are never permanently secure. We witnessed in our life-time the most massive and ruthless onslaught of "Gleichschaltung", of "Vermassung" and of totalitarianism ever experienced by man within historic times. Fascism and Nazism scored terrifying victories before they were broken on the battlefield, but their ideologies are not dead. And Communist dictatorship is to-day established in a fourth of the globe.

Our age may be endangering the individual. Men are being handled impersonally in the mass. Increasingly they are becoming statistics in the hands of a predatory collectivism. They are shunted about like herds of cattle. They are coordinated and subjugated in many parts of the world to the state until the last vestige of their freedom and their rights vanishes. Because the religious basis of our society has been denied, and materialistic theories of life and history have taken hold of the thoughts and actions of men and governments, the stature of the individual, and with it, his rights and inherent dignity have suffered tragic abatement and diminution in our day. Every precinct of his life is invaded and violated. Having denied man the image of God, he is being given the mask of the robot.

The faith that will serve us best, as free men in this great age, is faith in the worth and significance of the individual, his inviolate personality, and his inalienable rights. Without such faith which was written as a dogma into the heart of our Declaration of Independence and our Constitution - "We hold these truths to be self-evident, that all men are created equal and that they are endowed by their Creator with certain inalienable rights" - man's stature will be progressively reduced, the free domains of his mind and spirit will speedily come under iron-clad controls, accelerated by the organizational efficiency of our technological age, and man's dignity will be dragged into the dust. With such a faith, we will be strong enough to accept all necessary social and economic controls and still remain a free society. It will help us to set our course by a dependable compass.

The third element in the faith which will serve us best is faith in the sanctity of method - the method of human progress.

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The more exalted human goals are, the less likelihood there is of their early or complete attainment. Accordingly, when ruthless, brutal and desperate measures are employed, they not only make the attainment of these goals impossible; they also turn man's long journey towards them into one of unmitigated misery and horror.

The classic way of religion has never been fully tried in the world. To-day in an evolving atomic age wherein man's power will be vastly augmented, including the power of self-destruction, it is being ignored more thoroughly than at any time in human history. State and class autocracies have proceeded on the theory that there is no law superior to theirs, and that their brutal methods are justified by their results.

The shame of our age is that men are committing the most shameless acts of immorality in the name of high morality. Methods which are abhorred and denounced in one's opponents are rationalized and justified as moral imperatives when employed by oneself. Men talk of justice and brotherhood, of a classless society and universal peace, but they act as if these ideals were demons out of hell, lashing them on to the most horrible acts of injustice, hatred and violence.

For our civilization to survive, it is clearly necessary to revise this mood and thought pattern of our age, and to recharge our world culture with a new devotion to the sanctity of the only true method of human progress.

What I have said concerning the kind of faith which will serve us best in this great age of vast unfolding promise may be re-stated in more familiar terms. But I believe that they all add up to the same thing. The faith that will serve us best is the belief that there is a God indwelling in all nature, and yet transcending it, near to man in all his needs and yet beyond man's comprehension; that man is fashioned out of the earth but is nevertheless made in the spiritual image of God; that bound as he is by his physical and mental limitations, he is nevertheless boundless in his moral aspirations and is free to determine his own spiritual progress; that all men are equal in their essential humanity and that there is but one moral law for rich and poor, ruler and subject, native-born and stranger; that life is good and is

a gracious gift of God; and that the evil which exists in the world can be overcome and in the overcoming of it lies the very meaning and adventure of human life; that progress is real even if not uninterrupted; that a golden age of universal justice, brotherhood and peace awaits the human race and can be hastened by the efforts of the human race.

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53-9

Fulbright Scholarship
Grace Kaufman
mayo

THE
UNIVERSITY OF MINNESOTA

Baccalaureate Service

and

WRHS
Senior Reception
1953

NORTHROP MEMORIAL AUDITORIUM

SUNDAY AFTERNOON, JUNE 7

AT THREE O'CLOCK

Baccalaureate Service

ASSEMBLING OF THE AUDIENCE: As guests arrive on the Minneapolis Campus of the University for this baccalaureate service they will hear the Flemish bells being played from Northrop Auditorium, Mr. J. Frederic Goossen, M.A. '50, carillonneur. These bells can best be heard outdoors, but it is requested, nevertheless, that guests go into the auditorium before the academic procession begins. Guests may be seated as they enter. Center seats are reserved for those in the processional.

ACADEMIC PROCESSION: The procession, composed of members of the June graduating class, will march up the center of the Mall and into the auditorium.

PROCESSIONAL: Mr. Arthur B. Jennings, Associate Professor of Music and University Organist.

Laus Deo Dubois

INVOCATION: The Reverend James Boren, Director of the Westminster Foundation and Pastor to Presbyterian students at the University.

READING OF THE SCRIPTURES: Reverend Boren. Psalm 34.

CHOIR: The University A Cappella Choir directed by Caro M. Carapetyan, Visiting Associate Professor of Music.

O Gladsome Light Archangelsky

Thou Life of Life Tschesnokoff

Baccalaureate Service

SPEAKING FOR THE UNIVERSITY: Dr. James Lewis Morrill, President of the University of Minnesota.

BACCALAUREATE ADDRESS: "The Faith Which Will Serve Us Best," Rabbi Abba Hillel Silver, The Temple, Cleveland, Ohio.

CHOIR: The A Cappella Choir, Mr. Carapetyan conducting.

Alleluia Gallus

BENEDICTION: Reverend Boren.

CHORAL RESPONSE: The A Cappella Choir

Abide with Me Monk

POSTLUDE: Mr. Jennings.

Pastoral Bach

(There will be no recessional. The members of the senior class, their relatives and friends are invited by President and Mrs. Morrill to attend the Senior Reception immediately after the Baccalaureate, details of which are on the next page.)

Senior Reception

- The members of the Senior Class, their relatives and friends are invited by President and Mrs. Morrill to attend the Senior Reception immediately after the Baccalaureate Service. If weather permits, this Reception will be on the lawn bordering the Center for Continuation Study, the Museum of Natural History, and Folwell Hall. In case of inclement weather the Reception will be in the main ballroom of the Coffman Memorial Union.

- Assisting in the Reception are members of the Senior Cabinet; Grey Friars, and Iron Wedge, senior honorary organizations for men; Mortar Board, senior honorary organization for women; Chimes, junior honorary organization for women; and Phoenix and Silver Spur, junior honorary organizations for men. These students have maroon and gold identifications.

- Those in the receiving line will be President and Mrs. J. L. Morrill and Miss Darlene Ludtke, president of the Senior Cabinet.

- The University of Minnesota Concert Band will play during the Reception. Gerald R. Prescott, Bandmaster, will conduct.

- All guests are urged to register at the appropriate tables presided over by members of Phoenix and Silver Spur. The signed papers will be bound and preserved by the class of 1953.

- Punch will be served. The young ladies presiding at the punch tables are members of Chimes.

Case Diamond Jubilee Convocation Dinner



Rainbow Room, Hotel Carter
Saturday evening, April 11, 1953

Program



Toastmaster: DR. T. KEITH GLENNAN

Invocation: DR. HAROLD COOKE PHILLIPS

First Baptist Church, Cleveland

Dinner

Greetings: THE HONORABLE FRANK J. LAUSCHE

THE HONORABLE THOMAS A. BURKE

Appreciation Ceremonies

AWARD OF CONVOCATION MEDALLIONS

Convocation Committee Chairmen

Area Attendance (Honorary)	- -	RALPH M. HUNTER
Local Alumni Attendance	- -	CHARLES F. CHAPMAN
Local Non-Alumni Attendance	-	MRS. R. S. SHANKLAND
Citations	- - - - -	ALEXANDER C. BROWN
Decorations	- - - - -	MRS. R. L. IRELAND
Guides and Ushers	- - - - -	NORMAN BERG, ROBERT BLANZ, KENNETH DAVIS
Invitations	- - - - -	SIDNEY B. CONGDON
Dinner and Luncheon	- - - -	GORDON A. STOUFFER
Program	- - - - -	JOHN R. HOOVER
Publicity	- - - - -	ALLEN A. BILLINGSLEY
Reception	- - - - -	ALBERT M. HIGLEY
Registration	- - - - -	WILLARD E. NUID
Transportation	- - - - -	H. H. HAMPTON

Convocation Speakers

DETLEV W. BRONK	ZAY JEFFRIES
WILLARD T. CHEVALIER	EGER V. MURPHREE
KARL T. COMPTON	FILMER S. NORTHROP
FARRINGTON DANIELS	GROVE H. PATTERSON
CHARLES F. GOODEVE	GWILYM A. PRICE
GILBERT A. HICHET	LOUIS N. RIDENOUR, JR.
CLIFFORD F. HOOD	CLAUDE E. SHANNON
EARNEST A. HOOTON	T. E. SHEA
C. D. HOWE	ABBA HILLEL SILVER
GEORGE M. HUMPHREY	HARRY A. WINNE

Chairman of the National Advisory Committee,

FREDERICK C. CRAWFORD

General Chairman of the Convocation,

CHARLES M. WHITE

Honorary Chairman of the Convocation,

HERBERT HOOVER

Dinner



CHILLED SHRIMP COCKTAIL, *en Supreme*

GREEN OLIVES PASCAL CELERY

RIPE OLIVES ROSE RADISHES



DOUBLE BREAST OF CHICKEN, BONED AND

SAUTED IN BUTTER WITH YORK HAM

SERVED ON TOAST, WITH SAUCE SUPREME



AU GRATIN POTATOES,
Essence of cheese

FRESH GREEN GARDEN PEAS



LETTUCE AND TOMATO SALAD

FRENCH DRESSING



ICE CREAM CAKE — STRAWBERRY SAUCE

COFFEE

539
Rabbi Silver

State University of Iowa

IOWA CITY

COMMENCEMENT
EXERCISES



FRIDAY, JUNE TWELFTH, AT NINE-THIRTY A.M.

NINETEEN HUNDRED AND FIFTY-THREE

FIELD HOUSE

ONE HUNDRED AND SEVENTH YEAR OF THE UNIVERSITY

THE UNIVERSITY

VIRGIL MELVIN HANCHER, B.A., J.D., M.A., LL.D., L.H.D., LL.D., *President*
EUGENE ALLEN GILMORE, B.A., LL.D., D.C.L., *President Emeritus*
HARVEY HENRY DAVIS, Ph.D., LL.D., *Provost*
ALLEN WINSTON DARIN, B.A., M.A., M.B.A., *Administrative Dean*

THE COLLEGE OF LIBERAL ARTS

DEWEY BERNARD STUIT, Ph.D., *Dean*

THE SCHOOL OF FINE ARTS, EARL ENYEART HARPER, D.D., ST.B., LL.D., LL.D., *Director*

THE SCHOOL OF JOURNALISM, LESLIE GEORGE M-SELLER, B.A., *Director*

THE SCHOOL OF RELIGION, M. WILLARD LAMPE, Ph.D., D.D., *Director*

THE SCHOOL OF SOCIAL WORK, WAYNE VASBY, M.A., *Director*

THE COLLEGE OF LAW

MASON LADD, B.A., J.D., S.J.D., *Dean*

THE COLLEGE OF MEDICINE

WILLIS MARION FOWLER, B.A., M.D., *Chairman, Executive Committee*

THE COLLEGE OF DENTISTRY

WILLIAM JOHN SIMON, B.A., D.D.S., M.S.D., *Dean*

THE COLLEGE OF PHARMACY

LOUIS C. ZOPF, Ph.G., B.S., M.S., *Dean*

THE GRADUATE COLLEGE

WALTER FERDINAND LOEWING, Ph.D., *Dean*

THE COLLEGE OF ENGINEERING

FRANCIS MURRAY DAWSON, B.S. in C.E., M.C.E., D.Eng., *Dean*

INSTITUTE OF HYDRAULIC RESEARCH

THE COLLEGE OF EDUCATION

ELMER THEODORE PETERSON, Ph.D., LL.D., *Dean*

UNIVERSITY EXPERIMENTAL SCHOOLS

THE COLLEGE OF COMMERCE

SIDNEY GRAHAM WINTER, M.S., *Dean*

BUREAU OF BUSINESS AND ECONOMIC RESEARCH, C. WOODY THOMPSON, Ph.D., *Director*

BUREAU OF LABOR AND MANAGEMENT, KARL E. LUB, B.A., J.D., *Acting Director*

THE COLLEGE OF NURSING

MYRTLE E. KITCHELL, B.A., M.A., *Dean*

THE SUMMER SESSION

ELMER THEODORE PETERSON, Ph.D., LL.D., *Director*

THE EXTENSION DIVISION

BRUCE ELLIS MAHAN, B.A., M.A., Ph.D., *Dean*

RADIO STATIONS WSUI AND KSUI

BUREAU OF AUDIO-VISUAL INSTRUCTION

BUREAU OF CORRESPONDENCE STUDY

BUREAU OF EDUCATIONAL RESEARCH AND SERVICE

IOWA CENTER FOR CONTINUATION STUDY

THE IOWA LAKESIDE LABORATORY

JOSEPH HALL BODINE, Ph.D., *Director*

THE UNIVERSITY HOSPITALS

GERHARD HARTMAN, B.A., M.A., Ph.D., *Superintendent*

THE PSYCHOPATHIC HOSPITAL

WILBUR R. MILLER, M.D., *Director*

THE STATE BACTERIOLOGICAL LABORATORIES

I. H. BORTS, M.D., *Director*

HOSPITAL SCHOOL FOR SEVERELY HANDICAPPED CHILDREN

RAYMOND R. REMBOLT, B.S., M.D., *Director*

THE IOWA CHILD WELFARE RESEARCH STATION

BOYD R. MCCANDLESS, Ph.D., *Director*

THE INSTITUTE OF PUBLIC AFFAIRS

ROBERT F. RAY, Ph.D., *Director*

ORDER OF EXERCISES

MASTER OF CEREMONIES

PROFESSOR WILLIAM DICKEY CODER

I. SEATING OF THE CANDIDATES

The audience will stand during the placing of the colors and will be seated during the remainder of the processional.

II. THE NATIONAL ANTHEM

By the Assembly

III. INVOCATION

PROFESSOR M. WILLARD LANIPE
Director, School of Religion

IV. ADDRESS—*The Faith Which Will Serve Us Best*

RABBI ABBA HILLEL SILVER
The Temple, Cleveland

V. THE ANNOUNCEMENT OF AWARDS, HONORS, AND PRIZES

PRESIDENT VIRGIL M. HANCHER

VI. THE COMMISSIONING OF R.O.T.C. GRADUATES

COL. WALTER E. SEWELL
U. S. Army
COL. GEORGE A. BOSCH
U. S. Air Force

VII. THE CONFERRING OF ADVANCED DEGREES IN ARTS AND SCIENCE

PRESIDENT VIRGIL M. HANCHER

VIII. THE CONFERRING OF CERTIFICATES AND DEGREES

THE PRESIDENT

IX. THE CHARGE TO THE CANDIDATES

THE PRESIDENT

X. UNIVERSITY HYMN—*Old Gold*

O, Iowa calm and secure on thy hill,
Looking down on the river below,
With a dignity born of the dominant will
Of the men that have lived long ago;
O, heir of the glory of pioneer days,
Let thy spirit be proud as of old,
For thou shalt find blessing and honor and praise
In the daughters and sons of Old Gold.
We shall sing and be glad with the days as they fly
In the time that we spend in thy halls,
And in sadness we'll part when the days have gone by
And our paths turn away from thy walls;
Till the waters no more in thy river shall run,
Till the stars in the heavens grow cold,
We shall sing of the glory and fame thou hast won
And the love that we bear for Old Gold.

XI. BENEDICTION

Following the benediction the audience will be seated and will remain seated during the recessional. Candidates remain standing.

XII. RECESSIONAL

Program notes on pages 41-45

HONORS AND AWARDS

Bose Award: The International Club gives a certificate each year to the student from a foreign country who has done the most to foster respect for and knowledge of the nations of the world, and who has tried to develop an insight into the culture of the United States: KOLBJORN VASLASEN

Briggs Award: To the male student with the highest four year cumulative grade point average. Awarded jointly by Phi Eta Sigma and the University Committee on Athletics as a memorial to the late Professor John Ely Briggs: JOHN CHARLES FENTON

Broxam Award: Thirty dollars to a student who has demonstrated outstanding potentialities in the field of radio broadcasting at the stations operated by the University: ALLEN EDWIN HALL

Burge Award: A fifty dollar government bond to a woman from the Colleges of Liberal Arts, Commerce, Pharmacy or Nursing. The award is made on the basis of scholarship, citizenship, and need: JOAN CAROLINE MYERS

Chi Omega Award: A \$25 award to the graduating woman having the highest average in one of the departments of economics, political science, psychology, or sociology: GLORIA ARDITH JANSONIUS

D.A.R. Medal: To the senior woman having the

highest standing in American History during her college career: ELIZABETH GLENDINNING DUBOIS

Fowler Award: An award of \$100 to an active member of Mortar Board selected on the basis of scholarship, leadership, service and need: SALLY ANN YEATES

Pi Lambda Theta Prize: Twenty-five dollars to a worthy senior woman of high scholarship, personal qualifications, promise in the field of education, and with qualifications for a standard certificate: BONNIE LEE BEEKMAN

Seashore Award: A certificate to the citizen of the United States residing in Iowa City who has done the most to promote respect and understanding for the other nations of the world and who has helped in developing a closer understanding, knowledge, and respect for all nations of the world: JAMES GLENN TURK

University Women's Association Awards: A \$25 bond to each of four women from the Colleges of Liberal Arts, Commerce, Pharmacy and Nursing who have attained the highest scholastic record in all college work undertaken: Freshman: ALICE AMELIA HARRIET HADLEY, Sophomore: M. VIVIAN HOCHSTETLER, Junior: MARY JEANNEINE WEBER, Honorable mention: ADELE BROWN COCKSHOOT, MARGRIETA DELLE, Senior: BONNIE LEE BEEKMAN, Honorable mention: MARY ESTHER LADD, PHYLLIS ELAINE BEEBE

COLLEGE OF LIBERAL ARTS

Lowden Prize in Botany: To the freshman student achieving the highest standing in Botany 2:1 and 2:2, \$25: MAURICE W. GINTZ

Alpha Chi Sigma Award: A certificate and \$25 is awarded annually to the male graduate student in Chemistry, Chemical Engineering or Biochemistry having the highest scholastic standing for the first two semesters of graduate work: RUSSELL PAUL SUTTON

Bartow Prize: Membership in the American Chemical Society with all journals to a graduate student in chemistry with the highest scholastic standing: ROBERT CARLTON NAGLER

Pearce Prize: Membership in the American Chemical Society to the senior with the highest scholastic standing in chemistry: MARION MERLYN ANDERSON

Phi Lambda Upsilon Award: An appropriate chemical book to the junior student with the highest scholastic standing in chemistry: MARIE JANE HARK

Raiford Memorial Prize: One year's membership in the American Chemical Society to an out-

standing graduate student in organic chemistry: JACK FERREN MILLS

Lowden Prize in Greek: To an undergraduate for excellence in Greek language and literature as shown by an examination held in the spring, \$25: JOHN O'NEILL LENAGHAN

Lowden Prize in Latin: To an undergraduate for excellence in the Latin language of the sophomore level as shown by an examination held in the spring, \$25: PATRICIA L. CALDWELL

French Memorial Prize: Fifty dollars to an undergraduate for the best short story written in a contest conducted by the Department of English: MARY GORDON DUNLAP

Honors in English: KATHLYN KAY ADAMS, MARILYN MAY ADAMS, DONNA RAE BITTLE, JOHN LEE FULLER

Lowden Prize in Geology: For general excellence in the Department of Geology, taking into account scholastic standing and aptitude for seeing and appreciating geologic phenomena observed in the field, \$25: ROBERT HERBERT HANSMAN

Wilson Memorial Prize: The income from an endowment of \$1,000 for excellence in German language and literature: JOHN ANDREAS SIREVAAG

Alpha Delta Sigma Awards: Students in courses in advertising are annually given certificates for outstanding achievement by the national professional advertising fraternity for men: SAM AMES PRESTON and MELVIN LEROY LEWIS

Brewer-Torch Press Key: To the senior who upon graduation ranks highest in journalistic scholarship, leadership, and promise: FRANCES LAURENE SWARTZ

Certificates in Journalism: SHIRLEY ANN BEDDOW, BARBARA RAE BOYL, MARVIN JOEL BRAVERMAN, WILLIAM ROBERT CLABBY, DON HENRY COOMBS, DONALD DEAN JACOBSON, BILLY GENE JENNER, JANE LOUISE ROBINSON, ROGER JOHN STACHOUR, HENRY GEORGE ULLERICH, VIRGINIA LEE VAVRA, DONALD HENRY WALLACE

Fairall Award: A \$750 scholarship awarded to the outstanding man or woman student in advertising by L. E. Fairall of Des Moines: LEONARD HIPPECH

General Electric Scholarship in advertising, public relations, and sales promotion: JAMES S. RAMSEY

Iowa Press Women's Award: Twenty-five dollars to the outstanding senior woman in journalism: NORMA LEE SEXTON

Johnson Memorial Prizes in Journalism: To students majoring in journalism who write the best news stories for *The Daily Iowan*: First prize (\$20): WILLIAM ROBERT CLABBY and JAMES ELLERY FOSTER; Second prize (\$15): MARJORIE ANN BREHM; Third prize (\$10): KAY CROSS and SHIRLEE ANNE DAVIS

Murray Scholarship in advertising and journalism: ROGER JOHN STACHOUR and VIRGINIA LEE VAVRA

News Photograph Cup: To the student news photographer who has had published the best news picture in *The Daily Iowan*: CARL WILLIS TURK; Second: WILLIAM ROBERT CLABBY; Third: CARL WILLIS TURK

Radio News Awards: Fifty dollars in prizes for excellence in radio journalism: THOMAS EDWARD KOEHLER, JR., HENRY GEORGE ULLERICH, ROGER W. McLAIN, JEAN KENNEDY NORRIS, DEAN RICHARD SANDER

Sigma Delta Chi Award: To the outstanding male graduate: JOSEPH WILLIAM MEYER

Sigma Delta Chi Scholarship Awards: Certificates to all seniors in the upper ten per cent of the graduating class in Journalism: BARBARA RAE BOYD and HENRY GEORGE ULLERICH

St. Louis Advertising Club Award: FRANCES LAURENE SWARTZ and MELVIN LEROY LEWIS

Athletic Board Cup: To the graduating varsity award winner who is outstanding in athletics and scholarship: DUANE MARVIN BRANDT

Athletic Scholarship Cups: To the numeral award winner in each intercollegiate sport who has the highest scholastic average in his freshman year and who, as a sophomore, is a member of the varsity squad in that sport: NORMAN RONALD BARNES, NEILL RICHARDS GRUVER, CLYDE KEITH KITCHEN, DALE CLARK KNISS, MICHAEL EDWARD KORNIS, PAUL JOSEPH LEEHEY, JAMES GREGORY MILANI, ALVIN GEORGE ROWE, H. STREETER SHINING, GEORGE EDWARD WRIGHT

"P" Certificates: To graduating students who have won a letter in one or more of the several branches of competitive intercollegiate athletics: JAMES HALLIS ANDREASON, EDWARD WILLIAM BADGER, ROBERT CHARLES BEALS, CHARLES E. BOYLAN, DUANE MARVIN BRANDT, JOHN BURTON BRITZMANN, OTTO PETER BROEDER, CAMERON L. CHRISTENSEN, JAMES RICHARD CILEK, EVERETT WILLIAM COCHRANE, WILLIAM DONALD COMMACK, RICHARD DONALD DORAN, EARLE WAYNE CUGGAN, PHILIP VERNON DUGGAN, RONALD BUSINELL FAIRCHILD, JEROLD I. FASKE, ALOIS JOHN FIENUP, HERALD TAYLOR GREENE, GEORGE WILSON HAND, DONALD ELBERT HEATON, ROBERT L. HENARD, JR., JOHN JOSEPH HESS, RICHARD HICKENBOTTOM, BRUCE WADSWORTH HIGLEY, LLOYD WAYNE HOLSINGER, ROY MERLE HUTCHINSON, JIMMY TETSUO IZU, CHARLES LEE JOHNSON, DEAN RICHARD KENNY, ROGER LEE KROTH, FRANCIS LENEHAN LADUE, DEAN ALLEN LANSING, JACKIE LEE LUNDQUIST, KIYOICHI MANA, ROBERT ROCKNE MAU, DANIEL MARCUS MCBRIDE, RICHARD MEYER, RALPH MAYNARD MINNICH, WALLACE FRANK NICHOLSON, DONALD DEE OLNSTEAD, RONALD OTTO PETERSEN, RICHARD ALLEN PETERSON, HARVEY LEE PRINZ, WILLIAM JOHN REICHARDT, HAROLD JAMES REISTER, JAMES LOUIS RIEDESEL, MURRAY ROST, RICHARD ARREN SALOME, JAMES ALLEN SANGSTER, ARNOLD VINCENT SCHNOEBELE, JAMES THOMAS SCROWGS, WILLIAM HENRY SNOOK, BILL WYMAN SORENSON, GERALD LESLIE STONE, HERBERT CECIL THOMPSON, WILLIAM GEORGE VANA, DAVID VAN GINKEL, RICHARD KENNETH WASHINGTON, DONALD DALE WATSON, WILLIS EDWARD WEBER, BERNARD LANCELOT WESTFALL, CHARLES ALLAN WOODRUFF, FRED WIEHELM FRIEDRICHSEN

Western Intercollegiate Conference Athletic Association Medal: To the graduating senior varsity award winner outstanding in scholarship and athletics: JOHN BURTON BRITZMANN

Air Force Association Air R.O.T.C. Medal: To the outstanding student of the First Year Advanced Air Course R.O.T.C. Unit: THEODORE HERSTAND

All American Rifle Second Team: JOHN EDWARD WESTWICK

Best Drilled Platoon Award: 3rd Platoon, Company "G", Platoon Leaders RICHARD DONALD DORAN and WILLIS ALBERT VOLKMER

The Chicago Tribune Awards: To students in the first and second year Basic Course, A.F.R.O.T.C. and F.O.T.C., for proficiency in drill and manual of arms:

First place Freshman Army, JERRY ALLEN BURNETT

Second place Freshman Army, WAYNE MORGAN MEAD

First place Sophomore Army, RONALD LEWIS CAPPS

Second place Sophomore Army, PAUL ROGER OLSEN

First Place Freshman Air, TILLIO PETRICK PETROZZI

Second place Freshman Air, RICHARD CHARLES MORRISON

First place Sophomore Air, ROBERT PHILLIP STACK

Second place Sophomore Air, JOHN WESLEY HALL, JR.

Distinguished Military Student Badge: Army: JAMES EARLE MADISON, JOE MASON LINDSEY, JOHN MYRTLE HAYS, WALTER CARL SCHROEDER, RODNEY WAYNE MILLER, JAMES Y. HENDRICKS, DONALD WILLIAM THOMAS, DAVID GEORGE FRY, STANLEY LAWRENCE JAMES, JACK L. LUNDQUIST, HARRY JOHN SIEVERS, GEORGE WALLACE ADAMSON; Air Force: EDWARD W. BADGER, JOHN R. CHRISTIAN, ROBERT S. COOPER, DAVID MAXWELL STANLEY, JAMES GLENN TURK, WAYLAND DALE WELTY, ALLEN EDWIN HALL, JOHN RICHARD JEWELL, JAMES STANLEY MARCOVIS, GUY EDWIN RUNYAN, JAMES STANLEY SHERMAN, PETER DENNE VAN OOSTERHOUT, DELBERT JOHN WACKER, HERBERT EUGENE LARSON, KENNETH PAUL UHL, HENRY GEORGE ULLERICH

Freshman High Aggregate Award: ROY FRANCIS EBERLINE

Freshman High Individual Award: WILLIAM JOHN FEYE

Freshman Rifle Team Awards: ROY FRANCIS EBERLINE, WILLIAM JOHN FEYE, WAYNE COGSWELL, BERNARD PAUL SLOFER, LAWRENCE MELVIN KERR, CHARLES ORVILLE GRIFFITH

Individual Rifle Team Award: JOHN EDWARD WESTWICK

Infantry ROTC Medal: JOE MASON LINDSEY

The Johnson County Reserve Officer's Association Medal: Bronze medal to the outstanding Basic student, R.O.T.C. and A.F.R.O.T.C., for excellence in Military Subjects and extra-curricular activities in connection with the Military De-

partment: Army: FRED E. PATTERSON, Air Force: PAUL D. FOSTER

Military Scholastic Medal and Clasp: Bronze medal for the first award and a clasp for each additional award, to members of the R.O.T.C. and A.F.R.O.T.C. Unit who have maintained an A rating for one semester in discipline, a semester grade of A in Military Science, and a high grade average in academic work: Army: EDWIN LEE ANDERSON, JAY HAROLD ANDERSON, DONALD LEE BORCHERDING, WILLIAM WILBER BLAUER, EDWARD BRADFORD BURNS, DONALD CHARLES GOETZ, HOWARD PAUL HOGSHEAD, JAMES EDWARD HOUSER, RICHARD WILLIAM HRADEK, KEITH J. HULTQUIST, MICHAEL EDWARD KORN, DAVID GERALD LOWE, WAYNE H. LUDVIGSON, LOUIS B. MEYERS, ROBERT WAYNE OVERHOLTZER, FRED EUGENE PATTERSON, DAVID GUERHARDT PAULSRUD, JOHN ORIN PENHOLLOW, GEORGE EDWIN SMITH, RICHARD ROBBIN THORNTON, DONALD GARY TWEED, ROBERT MINOR WARNER, GEORGE EDWARD WRIGHT; Air Force: HUGH RIDDELL ANDERSON, GUY GALIN BERRIER, JORDAN LEON FISH, ROBERT ENSIGN GORDON, MELVIN KERR, JAMES STANLEY MARCOVIS, VERNON CLYDE MAULSON, DENNIS M. MILLER, THEODORE POEHLER MYERS, EDWIN PAUL NUSS, ROBERT BRUCE OGESON, JAMES SEYMOUR REEDER, JR., WILMER JAMES ROBISON, JR., JAMES STANLEY SHERMAN, RAYNARD MYTHIAS SOMMERFIELD, DAVID MAXWELL STANLEY, JACK MARVIN STERN, JOHN R. STEWART, KENNETH PAUL UHL, DELBERT JOHN WACKER, WAYLAND DALE WELTY

The Minute Man Medal: Bronze medal to first year Basic students for leadership, soldierly bearing, and excellent knowledge of the ideals of the founders of the United States: FRANK VAN BERAN, GUY GALIN BERRIER, HARRY E. COLBERT, WALTER PAUL DOYLE, FRED EUGENE GILMORE, WAYNE LAWRENCE MARTIN, JOHN FRANCIS MAUGHAN, WAYNE MORGAN MEAD, KERMIT NORMAN OELBERG, ALWIN M. SHIKAWA, GARY ROBERT URICH, GUY VENA

PAST Award: Medallion to the outstanding cadet of Billy Mitchell Squadron: BILLY GENE JENNER

Regional Individual Varsity Rifle Team Winner: JOHN EDWARD WESTWICK

ROTC Rifle Team Governor's Day Match Awards: Gold medal, first place, JOHN EDWARD WESTWICK; Silver medal, second place, DONALD JAMES GREEN; Bronze medal, third place, STANLEY LAWRENCE JAMES

The Society of American Military Engineers Award: Gold medal to the outstanding Advanced Course Engineering R.O.T.C. student for academic achievement and leadership qualifications: CHARLES LEROY LARSEN and KEITH J. HULTQUIST

Varsity Rifle Team Letters: JOHN EDWARD WESTWICK, DONALD JAMES GREEN, STANLEY LAW-

RENCE JAMES, DONALD HENRY GROENVELD,
PLENNY BATES, WALTER CONRAD JONES

Varsity Rifle Team High Aggregate Score Medals: Awarded annually to members of the Varsity Rifle Team. Gold medal with first place clasp, JOHN EDWARD WESTWICK; gold medal with second place clasp, DONALD JAMES GREEN; silver medal with third place clasp, STANLEY LAWRENCE JAMES

Band Service Keys: An award for six semesters of membership in the University Band: RICHARD RAYMOND ALBRECHT, WILLIAM F. BETTERTON, JAMES DOUGLAS CORWIN, DELMER EDWARD DENKER, DONALD NEIL EYLER, MAURICE WILSON FAHRNEY, MAJORIE ELIZABETH JOHNSON, JAMES VERNON MCMAHON, WARD WILLIAM RUSKE, NORMAN PHILLIP VAN WALTEROP

Bryan Prize: A cash prize, the income from an endowment of \$250, for the best essay on a subject relating to the science of government: BARBARA PEARL BEIRENS

Hancher Prize: An award of \$25 to the winner of the University Oratorical Contest: MILTON BROWN

Lowden Prize in Forensics: To the outstanding debaters who have attained at least junior standing and who have participated with distinction in at least two major debates, \$50: THOMAS ANDREW BROWN and KATHRYN ANN DOORNINK

Merit Award in Forensic Activities: DAVID MASON ADAMS, ROBERT EDWARD ALLERTON, THOMAS ANDREW BROWN, MILTON JOSEPH BROWN, BARBARA RUTH DIERMANN, KATHRYN ANN DOORNINK, DAVID LEE FOSTER, KENNETH M. JOHANNSEN, MARGARET LOU MILOTA, NORTON MEZVINSKY, FRANKLIN LEWIS MYERS, THEODORE POEHLER MYERS, JUNE EVELYN ROTMAN, JACK HENRY TRAVERSE, JR., ERNEST CLIFFORD THOMPSON, JR.

Johnson Memorial Prize: To the senior who has registered throughout his course in the College of Liberal Arts and who graduates with the highest academic standing: MARY ESTHER LADD

Sansay Prize: An award to a graduate of the College of Liberal Arts selected by the Graduate faculty provided by the income from an endowment gift by Theodore F. Sansay: DONNA RAE BITTLE

COLLEGE OF COMMERCE

Alpha Kappa Psi Key: To the man graduating in Commerce with the highest scholastic average: ARTHUR LAVERN ROSS

Delta Sigma Pi Key: To the senior man ranking highest in the College of Commerce: JOSEPH

RAYMOND BARND

Phi Gamma Nu Key: To the senior woman in the College of Commerce who ranks highest in scholarship: MARY LOUISE BUSCHING SLOAN

COLLEGE OF DENTISTRY

Alpha Omega Award: A scroll and plaque to the senior student with the highest scholastic average in Dentistry: WAYNE MERLIN HOFF

American Academy of Dental Medicine Award: A certificate of merit and a five year subscription to the Journal of Dental Medicine to a senior for achievement, proficiency, and promise: GEORGE RAYMOND HILL, JR.

American Society of Dentistry for Children Certificate: A certificate of merit and a year's membership: JOHN JUNIOR DEGOOYER; Membership and Journal: MARY LOUISE THOMPSON

Class of 1923 College of Dentistry Award: HAROLD ROBERT GANNON

Dental Book Awards: CLIFTON DEAN ADAMS,

EDWARD EUGENE ANDERSON, ROBERT AUDLEY GASTON, FRANK JOHNSON KRAPEK, JOHN RICHARD LECOQ, CHARLES EDWARD NEWCOMER, RICHARD ERNEST OTTIER, JAMES COLLIER SEARLS, ROBERT RALPH SUTHERLIN, CHARLES WENDELL TUCKER

Minger Award: Fifty dollars to the outstanding freshman and the outstanding sophomore in the College of Dentistry: Freshman, CHARLES LOECK BOLENDER; Sophomore, KEITH EVANS THAYER

Omicron Kappa Upsilon Awards: JAMES ALVIN BUCK, RICHARD TRENT EVANS, WAYNE MERLIN HOFF, JAMES EDWARD NORTH, ROBERT FREDERICK WATSON

COLLEGE OF ENGINEERING

American Institute of Chemical Engineers Award: A pin denoting junior membership and a scroll for scholastic excellence to the student ranking highest in the freshman and sophomore years in

chemical engineering: DARRELL DEWEY WYRICK

American Institute of Electrical Engineers Award: A cash award of \$10 and a certificate to the

electrical engineering student presenting the best paper before the student branch: J. D. MILLER

American Society of Civil Engineers Award: Junior membership to the highest ranking senior civil engineering student: EDWIN PAINTER BENEDICT

American Society of Mechanical Engineers Award: Junior membership to the student presenting the best paper before the student branch: GALE BENNETT HANSEN

American Society of Tool Engineers Award: An award of \$700 to a senior mechanical engineering student by the American Society for Tool Engineers: KENNETH DALE WILSON

Chi Epsilon Award: Junior membership in the Iowa Section of the American Society of Civil Engineers to the highest ranking senior student in Civil Engineering: WILLIAM ELLSWORTH THOMPSON

Eta Kappa Nu Award: An engineering handbook to the junior in electrical engineering having the highest scholastic achievement in his first two years in college: JOHN VARY WAIT

Institute of Radio Engineers Award: To the electrical engineering students presenting the three

best papers before the Cedar Rapids Section: Second prize: J. D. MILLER; third prize: DOMINIC AVERSA

B. A. Lambert Scholarship: EDWARD IRVIN LEVIN

Pi Tau Sigma Merit Award: A mechanical engineer's handbook to the junior in Mechanical Engineering who has shown the greatest personal development in his first two years: RICHARD FRED DIVIS

Fred Stebler Scholarship: To a junior student in recognition of superior scholarship and outstanding work: JAMES THOMAS BRADY

Tau Beta Pi Prize: An engineer's handbook to the sophomore in the College of Engineering who had the highest scholastic standing during his freshman year: DARRELL DEWEY WYRICK

Theta Tau Engineer Award: Gold key and his name added to a plaque to the outstanding upper class engineering student who ranks highest in a competition based upon popularity, scholarship, and service to the College of Engineering: MARVIN FRANK SEDLACEK

Westinghouse Achievement Award: JOHN VARY WAIT and DONALD GARY TWEED

COLLEGE OF LAW

Nathan Burkan Memorial Prize: Established by the Nathan Burkan Memorial Foundation a \$100 prize is awarded annually to the senior in the College of Law who prepares and submits the best essay on some phase of the law of Copyrights and Trade-Marks: GILBERT K. BOVARD

Law Club Contestants: Bronze plaques to the juniors who, through ability to prepare and argue cases in their freshman year and scholarship based on all their work up to date, participate in the Junior Arguments: DONALD PAUL COONEY, JOHN TINLEY UPDEGRAFF, PHILLIP STEVE DANDOS, FAYETTE PAUL GOODLAND, JOE JAMES HALBACH, FORREST WILLIAM ROSSER, BARRY NEAL MINER, MILTON POISNICK, RICHARD JUNIOR BRINKMAN, DONALD LEO DOREL, WM. B.

EVERETT, DWIGHT C. THOMPSON, GORDON JAMESON FORSYTH, DAVID JAMES BUTLER

John J. Murray Scholarship: GEORGE WILLIAM MCDUNNAY and DAVID MAXWELL STANLEY

Order of the Coif: EVERETT GLEN MEIKER, CAROL EDWARD ECKERMAN, JAMES RAY HEINTZ, DAVID MAXWELL STANLEY, JAMES G. SCHNEIDER, PETER VAN METRE, WILLIAM LOUIS VEDMAN, GILBERT K. BOVARD, ROBERT L. LARSON (Honorary)

Supreme Court Day Contestants: Bronze plaques to the four winners of the junior arguments who participate in the Supreme Court Day arguments: BENJAMIN CLINTON CLAYTON, DENMAR ALAN COSE, DAVID MAXWELL STANLEY, MARVIN RALPH ADAMS

COLLEGE OF MEDICINE

Borden Award: Five hundred dollars to the member of the graduating class who has performed meritorious undergraduate research in some field of medicine: RICHARD BRADLEY DAVIS and JOHN MARTIN MCMAHON; Honorable Mention: ROBERT WARD HARRISON, DONALD DOUGLAS WEIR, TED LEE WELTON

MacEwen Memorial Prize: Fifty dollars to the senior student who has made an outstanding

record in his medical course: ALVIN MARA MAUER

Mosby Scholarship Book Awards: LAWRENCE ROBERT CORNISH, JAMES GRAHAM EASTON, ROBERT FENTON HENKLE, CHARLES HENRY KARR, RICHARD WAYNE SHROPSHIRE

Prentiss Memorial Prize: Fifty dollars to the first year student in the College of Medicine who has made an outstanding record in Gross Anatomy: JOHN CHARLES FENTON

COLLEGE OF NURSING

Nurses' Alumnae Association Award: To the graduating student in the College of Nursing who best exemplifies skillful nursing care; professional attitude toward the patient and the patient's problem; outstanding personality; and academic achievement, \$25: LORETTA JOY PARIS

Platt Prize: One hundred dollars to the outstanding student in the College of Nursing. The award is based on scholarship, performance in

the practice of nursing, and other personal qualifications: LOIS ALVINA LAUMBACH

Hearst Clinical Achievement Award: In memory of Mrs. Carmelita Calderwood Hearst, Professor Amy Frances Brown has established a fund from which annual awards of \$250 may be given to one or more graduating seniors in the College of Nursing who have excelled in clinical practice in nursing. The award is to be used by the students selected in acquiring further preparation in nursing: VIOLET FERN GORDANIER

COLLEGE OF PHARMACY

Bristol Prize: Bristol Laboratories Inc. award annually a copy of Howard's Modern Drug Encyclopedia to the fourth year student in the College of Pharmacy who, during his attendance has made the greatest contribution through extracurricular activities: MARGERY ANN RINK

Chehak Prize: A prize of \$25 to the most deserving pharmaceutical student in biochemistry: FREDERIC LEON BROWN

Jones Prize: A copy of Lange's Handbook of Chemistry to the first year student attaining the highest rank in Theoretical Pharmacy: MAURICE W. GINTZ

Kuever Prize: A copy of Dorland's American Illustrated Medical Dictionary to the third year student attaining the highest rank in Pharmaceutical Chemistry: DUANE T. JOHNSON

Lehn and Fink Gold Medal: To the senior student attaining the highest scholastic average in all Pharmaceutical subjects: MURIEL MCCOY SMITH

London Memorial Award: Fifty dollars to the most deserving senior Pharmacy student. The award is made on the basis of general and professional ability, excellence of character, personality, integrity, the esteem of co-workers and scholastic achievement. DAVID ROYCE CHAMBERS

Merck Prize: The Merck Manual of Therapeutics and Materia Medica, The Merck Index, and Re-

agent Standards and Chemicals to two fourth year students who have attained high scholastic standing in subjects dealing with dispensing: MURIEL MCCOY SMITH and ROBERT LEONARD McHUGH

Rho Chi Prize: Twenty dollars to the Pharmacy student who has the highest scholastic record upon the completion of his first year's work: EDWIN R. CARLSON, JR.

Rose Prize: A prize of \$25 to the third year student in the College of Pharmacy with the highest rating in Manufacturing Pharmacy: LOUIS J. BISINGER

Scherling Prize: The income from an annual endowment of \$200 to a Pharmacy student for excellence in organic chemistry: LEO F. FORSBERG

Teeters Prize: Membership in the American Pharmaceutical Association to the fourth year student with the highest rating in Pharmacognosy: HARRY WESLEY BROWN

Veenker Prize: Seventy-five dollars to the most deserving senior Pharmaceutical student attaining high rank in all junior subjects: DAVID ROYCE CHAMBERS

Zopf Prize: A set of prescription weights to the third year student who ranks highest in Administrative Pharmacy: SHIRLEY ALBRECHT

R.O.T.C. CADET CANDIDATES FOR COMMISSIONS

ARMY

Presented by Colonel Walter E. Sewell, U.S. Army

Infantry: GEORGE WALLACE ADAMSON, WARREN SETH BENSON, JOHN BURTON BRITZMANN, ROBERT E. CARDWELL, JERRY W. CLARK, L. CALL DICKINSON, JR., PHILIP VERNON DUGGAN, THOMAS WILLIAM ELLISON, HERALD TAYLOR GREENE, JOHN MYRTUE HAYS, DONALD ELBERT HEATON, JAMES Y. HENDRICKS, STANLEY L. JAMES, ROBERT J. KEEFE, PAUL C. KEMP, PAUL NEIL LANGEHOUGH, LYLE L. LEINBAUGH, JOE M. LINDSEY, JACK L. LUNDQUIST, MATTHEW JOSEPH MAUGHAN, RODNEY W. MILLER, HAROLD JAMES REISTER, CONNIE R. RILEY, WALTER CARL SCHROEDER, MERRYL D. SCHULKE, HARRY JOHN SIEVER, RICHARD BRUCE SWANK, ROLLIN D. SWANSON, WILLIS ALBERT VOLKMER, FORREST H. WANBERS, DEAN R. WILLWERTH

Quartermaster: JOHN THOMAS DUXBURY

Chemical Corps: GORDON S. NORVELL

Signal Corps: MELVIN G. BEEBE, GEORGE E. CARISNER, ROBERT H. ZAMASTIL

Medical Service Corps: GEORGE EUGENE DAVIS, DUANE T. JOHNSON, JAMES BERNARD KLENKE, ROBERT LEONARD MCHUGH, DON E. SHANNON, ROBERT J. THOMPSON

Finance: JERRY LEE BOULAND, RICHARD DONALD DORAN, RONALD L. JOHNSON, MARTIN ALOYSIOUS McDEVITT, LAURENCE JOSEPH MEYER, PAUL BURTON MILLER, ARTHUR LAYERN ROSS, JOSEPH M. ROWAN

Engineer: ANTHONY C. AIELLO, LOWELL R. ASPHOLM, WILLIAM CHARLES BOCK, RAY A. BOEKE, JACK L. DETRICK, DAVID GEORGE FRY, DONALD L. GRIFFITH, FREDERICK J. HALTON III, ROBERT C. LENTFER, WALTER C. JONES, MARVIN E. KENNEBECK, CHARLES L. LARSEN, JOSEPH T. LEINFELDER, ERVIN SWAN MILLER, JR., ROGER W. SHERMAN, CLIFFORD V. SMITH, GERALD LESLIE STONE

Medical Corps (U. S. Army): WILLIAM ALONZO BOCKOVER III, RICHARD JEROME PETERSON, ROBERT ARTHUR ROLLSTIN, SIDNEY ALLEN SMITH, TED LEE WELTON, ALDEN FRANCIS WILEY

Dental Corps (U. S. Army): KENNETH JOHN KOKJOHN, JOHN LOUIS McANDREW, ERNEST FRANKLIN SEARE

February, 1953, Graduates: ELMER V. BAUSCH, DON M. BUSBAR, RICHARD D. JONES, ROBERT R. DYKSTRA, JAMES E. MADISON, MARVIN F. SEDLACEK, DONALD W. THOMAS, CYRIL W. VONFUMITTI

AIR FORCE

Presented by Colonel George A. Bosch, U. S. Air Force

FREDERICK JOHN ADAMS, CHARLES WAYNE APPLEGATE, JAMES HALLIS ANDREASON, CHARLES LANE ARNDT, EDWARD W. BADGER, LLOYD R. BAIL, GREEN ROWE BARTO, DUANE R. BROWN, JOHN R. CHRISTIAN, JAMES R. CHLEK, RICHARD GURNIE CCE, THEODORE G. DOSCHER, ROBERT PAUL EBERSOLE, WILLIAM B. FOSTER, RALPH E. FRETTY, JAMES F. GIBBS, JAMES MARK GUTFREUND, EDWARD C. HALBACH, JR., ALLEN E. HALL, STANLEY D. HEMMEN, PATRICK H. HESS, JOHN J. HESS, RICHARD HICKENBOTTOM, JOHN TRUMAN HOLLAND, DAN F. HOWARD, EDWARD T. IMHOFF, BILLY G. JENNER, BOBBY E. JENNER, JOHN R. JEWEL, EDWIN A. KELLY, DONALD W. KNOEPFLER, HERBERT E. LARSON, RICHARD H. LEWIN, ALLAN P. LEIBLING, RICHARD B. LIERLE, MARVIN L. LYMAN, RICHARD K. MADISON, JAMES S. MARCOVIS, ROBERT R. MAU, DAVID C. NEUBAUS, ROBERT E. NYE, EUGENE A. OATHOUT, JAMES F. OLMSTED, JERRY PADZENSKY, THEODORE P. PATROU, JACK W. PETERS, NORMAN D. PLENDER, THOMAS H. PRIES, LOUIS I. RATLIFF, DALE J. RAZER, WILMER J. ROBINSON, DONALD E. ROSE, RICHARD C. RUBIN, GUY E. RUNYAN, REX B. RUTHER, DEAN R. SANDEL, THEODORE M. SELBIN, DEAN E. SIDDALL, JAMES S. SHERMAN, ROGER V. SPOHN, GAYLORD L. STAVELLEY, JOHN L. SWANK, HERBERT C. THOMPSON, RICHARD S. THOMPSON, CHARLES W. TOLAND, JAMES G. TURK, HENRY G. ULLERICH, DAVID VANGINKEL, PETER D. VAN OOSTERHOUT, GEORGE W. VIETH, DELBERT J. WACKEL, RICHARD A. WATSON, WILLIS E. WEBER, JAMES R. WEICHMAN, RICHARD J. WELLS, WAYLAND D. WELTY, BERNARD L. WESTFALL, JAMES F. WHITE, EMERSON K. WIRTZ, MARION A. YOUNGERS, CARL B. ZIMMERMAN

Medical Corps (U. S. Air Force): ROBERT FENTON HENBLE, ROBERT BURNES HILLEY, ROGER PATRICK MILLEA, WILLIAM THEODORE SHULTZ

Dental Corps (U. S. Air Force): WESLEY FREDERICK FROMHARDT, RICHARD MARTIN LINDENMEYER, JAMES EDWARD NORTH

February, 1953, AFROTC Graduates: JOHN E. COOPER, ALBERT LEROY FRENCH, GERALD LEE NORDQUIST, MARSHALL HILLEL SCLAROW, JAMES THOMAS SROGGS, ROBERT J. WAGGETT

GRADUATE COLLEGE
Presentation by Dean Walter F. Lochwing

DOCTOR OF PHILOSOPHY

- JAMES TIMOTHY ASHFORD, B.S.Ed., College of Education and Industrial Arts, Ohio, 1945
M.A., New York University, 1947 Houston, Texas
Music. Thesis: Amalgam: a choral fantasy for tenor, mixed chorus, and orchestra
- CLIFFORD MASON BAUMBACK, B.S., Springfield College, 1938 Norman, Okla.
M.B.A., Northwestern University, 1945
Labor and Industrial Management. Thesis: Labor union attitudes and policies relating to production standards and wage incentives based on time studies
- EARL SAMUEL BEARD, B.A., Baylor University, 1949 San Angelo, Texas
M.A., State University of Iowa, 1950
History. Thesis: Human nature in politics: A study of Walter Lippmann
- ALDON MCKEE BEBB, B.A., Colorado State College of Education, 1947 Conesville
M.A., Colorado State College of Education, 1948
Education. Thesis: A study in two methods of teaching higher decade addition
- JAMES WILLIAM BECK, A.B., Southwest Missouri State Teachers College, 1947 Salina, Kans.
M.A., State University of Iowa, 1948
Economics. Thesis: A Macroeconomic approach to distribution theory
- SAMUEL LEO BECKER, B.A., State University of Iowa, 1947 Iowa City
M.A., State University of Iowa, 1949
Speech. Thesis: The ordinal position effect in radio audience research
- JOHN ROBERT BENGTSON, A.B., Augustana College, 1946 Iowa City
M.A., State University of Iowa, 1947
History. Thesis: Nazi war aims: The plans for the thousand year Reich
- EMANUEL MENDEL BOGDANOV, B.S., College of City of New York, 1946 Iowa City
M.S., State University of Iowa, 1950
Anatomy. Thesis: Effects of hypothalamic lesions and subsequent propylthiouracil treatment on pituitary structure and function in the rat
- LOREN EDWARD BOTHELL, B.S., St. Louis University, 1950 Iowa City
M.S., State University of Iowa, 1951
Mechanical Engineering. Thesis: Temperature gradients in the boundary layer with heat transfer
- ALLEN BISCHOFF BROWN, B.A., Sam Houston State Teachers College, 1938 Lexington, Ky.
M.A., Texas University, 1940
English. Thesis: W. Somerset Maugham as a novelist
- DAVID WILLIAM BRYAN, B.S.Ch.E., State University of Iowa, 1949 Cedar Rapids
M.S., State University of Iowa, 1951
Chemical Engineering. Thesis: Studies in membrane separations
- THOMAS JOSEPH BULAT, B.S., St. Ambrose College, 1949 Berwyn, Ill.
M.S., State University of Iowa, 1950
*Botany. Thesis: Cultural studies of *Dacrymyces Ellisii**
- ARTHUR GEORGE CARROLL, E.S., University of Wyoming, 1948 Sheridan, Wyo.
M.S., University of Wyoming, 1949
*Botany. Thesis: The additive and antagonistic effects of various growth regulators on the straight growth of *Avena Coleoptiles**
- SHE-WO CHANG, B.L., National Wu-Han University, 1939 Kiangsu, China
M.A., State University of Iowa, 1949
Economics. Thesis: Problems of industrialization in densely populated under-developed countries
- SIDNEY JOHN COVERT, B.Ed., Mankato State Teachers College, 1939 Fulda, Minn.
Education. Thesis: An evaluation of handwriting in certain Iowa schools

- JOSEPH FLETCHER DICKSON, B.S., Indiana State Normal School, 1931 Portales, N. M.
M.A., State University of Iowa, 1939
Physical Education. Thesis: The relationship of depth perception to goal shooting in basketball
- WALTER ERNEST DITZLER, B.S., Iowa State Teachers College, 1938 Cedar Falls
M.A., Ohio State University, 1943
Education. Thesis: A review of the influences bearing on the development of programs in industrial education
- DEAN BENTON DONER, B.S., South Dakota State College, 1946 Moscow, Idaho
M.F.A., State University of Iowa, 1948
English. Thesis: The burdening of narrative
- WENDALL MOORE FARROW, B.A., State University of Iowa, 1949 Chariton
M.S., State University of Iowa, 1951
Botany. Thesis: Tropical soil fungi
- MARCUS JOSEPH FAY, B.A., State University of Iowa, 1949 Iowa City
M.S., State University of Iowa, 1951
Botany. Thesis: The flora of southwest Iowa
- DONNA ROSE FELDMAN, B.F.A., University of Arizona, 1945 Tucson, Ariz.
M.A., University of Arizona, 1948
Speech and Dramatic Art. Thesis: An historical study of Thomas Wood Stevens' Globe Theatre Company
- MARY FRANCES FLOURNOY, B.A., Northwestern State College, 1942 Haynesville, La.
M.A., George Peabody College, 1946
Education. Thesis: A study of the effectiveness of an oral arithmetic program prepared for use at the intermediate grade level
- HESSIE FILMCRE GARNER, B.S., Iowa State College, 1949 Osceola
M.S., State University of Iowa, 1951
Geology. Thesis: Lower Mississippian Cephalopods of Michigan, coiled nautiloids and ammonoids
- CLAUDE SWANSON GEORGE, JR., B.S., University of North Carolina, 1943 Reidsville, N. C.
M.S., University of North Carolina, 1951
Labor and Industrial Management. Thesis: Management training films: their design, production, and application
- DONALD LINTON GRAHAM, B.S., Kansas State Teachers College, 1939 Storm Lake
M.A., Kansas State Teachers College, 1940
History. Thesis: Circuit Chautauqua, a Middle Western institution
- JEANNETTE JUBIA GUND, B.A., Lindenwood College, 1944 St. Petersburg, Fla.
M.A., State University of Iowa, 1950
Physical Education. Thesis: Effect of knee trauma on gait
- HAROLD NELSON GUTHRIE, B.A., William Penn College, 1932 Iowa City
M.A., State University of Iowa, 1948
English. Thesis: The humor of Thoreau
- RICHARD GORDON HANSEN, B.A., La Crosse State Teachers College, 1940 New Lisbon, Wis.
M.A., Northwestern University, 1946
Education. Thesis: A study of elementary school organization
- GEORGE TAYLOR HARRIS, B.A., Iowa State Teachers College, 1947 Waterloo
M.A., State University of Iowa, 1950
Economics. Thesis: The capital structure in American banking
- RUTH LEAH HISHBERGER, A.B., Western College, 1938 Iowa City
M.S., Cornell University, 1944
Child Welfare. Thesis: The relationship between maternal behavior and the child's early adjustment to nursery school

- HAROLD DAVID HOLLOWAY, B.S.Ed., North Texas State College, 1949
M.S., North Texas State College, 1950
Child Welfare. Thesis: Effects of training upon, and relationships between two standard child intelligence tests
Cleburne, Texas
- KARL MAGNUS HOLVIK, B.A., Concordia College, 1943
M.A., Eastman School of Music, 1947
Music. Thesis: Analysis of symphony "Martin Luther"
Cedar Falls
- DWIGHT WESLEY HOOVER, B.A., William Penn College, 1948
M.A., Haverford College, 1949
History. Thesis: The religious basis of the thought of the elder Henry James
Oskaloosa
- MAURICE THEOBALD IVERSON, B.S., State University of Iowa, 1925
M.A., Columbia University, 1941
Education. Thesis: A historical and structural survey of audio-visual techniques in education, 1900-1950
Madison, Wis.
- EDWARD JAMES KELLY, B.A., Defiance College, 1942
M.A., State University of Iowa, 1948
Education. Thesis: An historical analysis of the development of the use of collateral reading from 1900-1950
Middletown, N. Y.
- EDWIN LEWIS KLINGELHOFER, B.S., University of Buffalo, 1946
Psychology. Thesis: The relationship of academic advisement to the scholastic performance of college probationary students
Keokuk
- HOWARD MAYNARD KLITGAARD, B.A., State University of Iowa, 1949
M.S., State University of Iowa, 1950
Physiology. Thesis: Pathways of elimination of C¹⁴-labeled thyroxine in the rat. Biliary and urinary I¹³¹ excretion in euthyroid, hyper- and hypothyroid rats injected with labeled thyroxine
Harlan
- YUTAKA KOBAYASHI, B.S., Iowa State College, 1946
M.S., Iowa State College, 1950
Biochemistry. Thesis: The enzymatic synthesis of alpha-acetolactate from pyruvate by *Proteus Morganii* extracts
San Francisco, Calif.
- ALWORTH DUANE LAISON, B.S., Iowa State College, 1948
M.A., State University of Iowa, 1950
Bacteriology. Thesis: Purification and properties of bacterial urease
Argusville, N. Dak.
- PAUL LEWIS LENTZ, A.B., Butler University, 1940
M.S., State University of Iowa, 1942
Botany. Thesis: The thelophoraceae of Iowa with a discourse on modified hyphae of hymenomycetes and a monographic study of the genus *Stereum* in the Upper Mississippi Valley
Greenbelt, Md.
- KENNETH EUGENE LINDLEY, B.S., University of Wisconsin, 1948
M.S., University of Wisconsin, 1949
Electrical Engineering. Thesis: An investigation of polyphase to single-phase transformation
Stratton, Colo.
- JAMES RODNEY MCCONKEY, B.A., Western Reserve University, 1943
M.A., Western Reserve University, 1946
English. Thesis: The novels of E. M. Forster
Morehead, Ky.
- JOHN CLIFFORD MITCHEM, B.S., Ball State Teachers College, 1947
M.A., State University of Iowa, 1951
Physical Education. Thesis: The influence of exercise, emotional stress, starvation, and age on static neuromuscular tremor magnitude
Terre Haute, Ind.
- ROBERT SHIRLEY MOHL, B.S., Iowa State College, 1942
M.A., State University of Iowa, 1948
History. Thesis: The royal tallage of three escheated honors, with introductory notes concerning the claim of those honors
Iowa City
- GEORGE MURRAY NAWSS, JR., A.B., University of Maryland, 1948
M.A., Johns Hopkins University, 1949
English. Thesis: Poems of Paper Fish and Lanterns
Baltimore, Md.

- JAMES WILLARD NIELSEN, B.S., Nebraska State Teachers College, 1945
M.S., University of Minnesota, 1948
Chemistry. Thesis: A study of the systems Na-Hg and NH₄-Hg by X-ray diffraction
Kearney, Neb.
- TEMEL HALIL OZGA, B.S.C.E., University of Illinois, 1942
M.S.C.E., Massachusetts Institute of Technology, 1943
Hydraulics. Thesis: Simultaneous flows of air and water in a closed flume
Izmit, Turkey
- ROBERT JAMES PARDEN, B.S.M.E., State University of Iowa, 1947
M.S., State University of Iowa, 1951
Industrial Engineering. Thesis: Management training films: their design, production, and application
Iowa City
- GEORGE WILLIAM PEGLAR, B.S., Central Missouri State College, 1942
M.S., University of Chicago, 1949
Mathematics. Thesis: Some results in the theory of multiply homogeneous Polynomials
Ames
- JAMES BYRON PETERSON, B.F.A., University of Omaha, 1938
M.M., University of Rochester, 1941
Music. Thesis: Sonata for violoncello and piano and overture, "Reflexions," for orchestra
Omaha, Neb.
- ELMER BUCKINGHAM PRATT, B.A., Cornell College, 1946
M.D., State University of Iowa, 1937
Physiology. Thesis: Measurement of liver blood flow in the unanesthetized dog using the bromsulphalein dye method
Denver, Colo.
- GEORGE RUFUS EAGLAND, JR., B.A., Colored A. & N. University, 1938
M.A., State University of Iowa, 1939
Sociology. Thesis: Attitudes of high school seniors in a number of selected communities toward marriage, sex and parenthood as correlated with standard of living and subsequent enrollment or non-enrollment in college
Oklahoma City, Okla.
- WILLIAM CARROLL RICE, B.S.Ed., Central State Teachers College, 1932
M.M., Northwestern University, 1941
Music. Thesis: A century of Methodist music: 1850-1950
Baldwin, Kans.
- EDGAR FRANCIS EILEY, JR., B.A., University of Wisconsin, 1938
Botany. Thesis: Effect of X-radiation upon the growth of Avena seedlings
Iowa City
- FRANCES ARLENE RITCHEY, A.B., Drake University, 1944
M.S., University of Chicago, 1946
Zoology. Thesis: A cytological study of Cyathodinium
Des Moines
- SIDNEY ROSENBLUM, B.A., Drew University, 1949
M.A., Ohio State University, 1951
Child Welfare. Thesis: The effects of differential reinforcement patterns on certainty of prediction under two levels of motivation
Paterson, N. J.
- JANINE ALICE ROSSARD, M.A., Bowling Green State University, 1949
French. Thesis: L'art de la phrase narrative et descriptive de Bernardin de Saint-Pierre dans *Paul et Virginie*
Paris, France
- PHILIP RANDOLPH RUBY, A.B., University of Illinois, 1949
M.S., State University of Iowa, 1951
Chemistry. Thesis: Substitution reactions of Benzo (c) cinnoline
Aurora, Ill.
- SAMUEL HURLEY SCOTT, B.M., Arthur Jordan Conservatory of Music, 1941
M.M., Arthur Jordan Conservatory of Music, 1948
Music. Thesis: Symphony Number 1 in A Minor (composition)
Indianapolis, Ind.
- ERNEST FRANK SIXTA, B.A., Iowa State Teachers College, 1947
M.A., State University of Iowa, 1949
History. Thesis: Stuart paternalism and the manufacture of new drapery in Colchester and Norwich, 1603-1640
Trenton, N. J.
- DONALD OSCAR THOMPSON, B.A., State University of Iowa, 1949
M.S., State University of Iowa, 1950
Physics. Thesis: Creep zinc single crystals
Clear Lake

- JOHN ROSS THURSTON, B.A., University of Wisconsin, 1949
 M.A., University of Wisconsin, 1950
Psychology. Thesis: An empirical investigation of the loss of spelling ability in dysphasics
 Altoona, Wis.
- DONALD THORNHILL TORCHIANA, B.A., DePauw University, 1947
 M.A., State University of Iowa, 1949
English. Thesis: W. B. Yeats' literary use of certain Anglo-Irish Augustans
 Iowa City
- WILLIAM DAVID TROTTER, B.A., Queen's University, 1949
 M.A., State University of Iowa, 1950
Speech Pathology and Audiology. Thesis: A study of the severity of the individual moments of stuttering under the conditions of successive readings of the same material
 Ottawa, Canada
- LEON WAGNER, B.M., Northwestern University, 1939
 M.M., Northwestern University, 1940
Music. Thesis: *A Concert of Psalms*
 Iowa City
- JOHN CROSS WEBSTER, B.A., State University of Iowa, 1941
 M.A., State University of Iowa, 1943
Speech. Thesis: Pitch shifts as they relate to hearing losses caused by simultaneous masking
 San Diego, Calif.
- FRANK BOARDMAN WOOD, A.B., University of Maine, 1948
 M.A., State University of Iowa, 1950
Romance Languages. Thesis: The comic element in Beaumarchais' *Le Barbier de Seville* and *Le Mariage de Figaro*
 Bangor, Maine



MASTER OF ARTS

JOHN ROBERT AHNERT, B.M., Augustana College, 1951 <i>French. Degree without thesis</i>	Geneseo, Ill.
ROBERT EDWARD ANDERSON, B.A., State University of Iowa, 1952 <i>Education. Degree without thesis</i>	Onawa
RICHARD JAY ANSHIER, B.A., State University of Iowa, 1951 <i>Social Work. Degree without thesis</i>	Des Moines
PETER S. BARTEL, A.B., Bethel College, 1943 <i>Physics. Degree without thesis</i>	Hillsboro, Kans.
JAMES DONALD BLANK, B.S., LaCrosse State College, 1951 <i>Education. Degree without thesis</i>	LaCrosse, Wis.
BARBARA ANN BOUNDS, A.B., Allegheny College, 1951 <i>Speech Pathology and Audiology. Degree without thesis</i>	Windber, Pa.
ANNA HELENE BOYE, B.A., State University of Iowa, 1951 <i>Social Work. Degree without thesis</i>	Hamlin
MIRIAM DAVENPORT BURKE, B.A., Smith College, 1937 <i>Art. Thesis: An historical and comparative study of some of the published aims and methods of art education in Western Europe and the United States</i>	Iowa City
JOAN HARRIS CASSTOR, B.A., Syracuse University, 1951 <i>Psychology. Thesis: The effects of pre-training on the performance of a simplified Mashburn task</i>	Iowa City
DAROLD RICHARD CLAASSEN, B.A., Ottawa University, 1951 <i>Social Work. Degree without thesis</i>	Independence
NANCY HOUSER COLBURN, B.A., State University of Iowa, 1950 <i>Philosophy. Thesis: Professor Ryle's concept of performance rules</i>	Iowa City
WILLA CHARLENE DEWITT CONKLIN, B.A., Iowa State Teachers College, 1950 <i>Speech Pathology and Audiology. Degree without thesis</i>	Griswold
MAURICE RICHARD DAHN, B.S.C., State University of Iowa, 1952 <i>Labor and Industrial Management. Thesis: Unionism and labor problems in the motion picture industry</i>	Cedar Rapids
RICHARD KENMAN DIXON, B.A., State University of Iowa, 1951 <i>French. Degree without thesis</i>	Bloomfield
WILBUR HOMER DOUGHERTY, B.A., State University of Iowa, 1947 <i>Social Work. Degree without thesis</i>	West Liberty
JOHN DEVOL DUNCAN, B.M., State University of Iowa, 1952 <i>Music. Degree without thesis</i>	Iowa City
JOAN ANN DUNNE, A.B., College of Mount Saint Vincent, 1952 <i>Political Science. Thesis: The issues of the presidential campaign of 1952</i>	Floral Park, N. Y.
WARD EMIL EDWARDS, B.A., University of Minnesota, 1949 <i>Hospital Administration. Thesis: The reorganization and management of the Mary Fletcher Hospital Stores Department</i>	Burlington, Vt.
HERBERT WALTER ROYAL EMRICH, B.S.C., State University of Iowa, 1951 <i>Hospital Administration. Thesis: Group hospital administration</i>	Emmetsburg
EFFIE EVANGELINE EVELAND, B.S., Greenville College, 1947 <i>Education. Thesis: Children's experience with ordinal numbers at the first grade level</i>	Cedar Rapids
JAMES LEWIS EVERSON, B.A., Grinnell College, 1950 <i>Art. Thesis: Mobile construction: A project in secondary school art and an original painting in oil</i>	Oak Park, Ill.

- MALCOLM EDWARD FALLEK, B.A., New York State Teachers College, 1951 Albany, N. Y.
Marketing. Thesis: A statistical approach to marketing research procedure
- FREDRIC JOEL FELTON, B.A., State University of Iowa, 1951 Iowa City
Political Science. Thesis: Iowa government agencies and the news media
- EARL RICHARD FENN, JR., B.A., Carthage College, 1951 Clinton
Social Work. Degree without thesis
- ROBERT OWEN FITZSIMMONS, B.A., State University of Iowa, 1949 Boone
English. Thesis: Materials for a study of George Tucker
- MICHAEL FODY, JR., B.A., State University of Iowa, 1948
Education. Thesis: Hispanic contributions to education in the southwestern United States
- DYORA GOLDBERG FRUMHARTZ, B.A., Grinnell College, 1950 Iowa City
Philosophy. Thesis: Ethical reasoning and ethical rationalism
- ARACELY GALDAMES-PEREZ, Graduate, University of Chile, 1944 Santiago, Chile
Social Work. Degree without thesis
- WILLIAM LOUIS GANSON, B.A., State College of Washington, 1948 Mabton, Wash.
Art. Thesis: "Marianus Bubo"; The translation of a 16th-century book on owls annotated with special attention to certain traditions of owl imagery
- JOHN LEE GLENN, B.A., State University of Iowa, 1943 Osceola
Spanish. Degree without thesis
- JEAN LUNTZ GRESSLEY, B.A., Iowa Wesleyan College, 1951 Bonaparte
Music. Degree without thesis
- JOYCE MARILYN GRIFFIN, B.A., State University of Iowa, 1952 Davenport
History. Thesis: The nature and origin of the *Inquisitio Geldi* for Wiltshire
- CLARENCE HENRY HORTMAN, B.A., Iowa State Teachers College, 1948 Elkader
Psychology. Degree without thesis
- JULIA CAROLINE HAUTH, B.A., State University of Iowa, 1947 Hawkeye
History. Degree without thesis
- HARRY FRANCIS HOLBIEN, B.A., Boston University, 1949 Iowa City
M.Ed., Boston University, 1954
Education. Degree without thesis
- SHIRLEY JEAN HURLEY, B.M., Simpson College, 1949 Clarinda
Social Work. Degree without thesis
- THOMAS ERNEST JACSON, B.A., University of Saskatchewan, 1951 Saskatoon, Canada
Physical Education. Degree without thesis
- PHILIP JACOB JUHL, B.A., St. Olaf College, 1951 St. Paul, Minn.
Social Work. Degree without thesis
- KATHLEEN ELIZABETH KALBFLEISCH, B.A., Denison University, 1951 Grosse Pointe, Mich.
Speech Pathology and Audiology. Degree without thesis
- TAMIO KATO, Bungakushi Degree, Kwansei Gakuin University, 1948 Tokyo, Japan
Education. Degree without thesis
- KEITH EUGENE KLYN, A.B., Central College, 1950 Albia
Social Work. Degree without thesis
- DUANE SIDNEY KNOS, B.A., Upper Iowa University, 1947 La Porte City
Geography. Thesis: The location of capitals in national states
- MARGARET RODMAN LANGILEE, B.A., State University of Iowa, 1942 Iowa City
Psychology. Degree without thesis
- DONNA JANET LONG, B.Ed., National College of Education, 1942 Rock Island, Ill.
Education. Thesis: A frequency analysis of the word analysis skills in six basic reader series

- CHARLES THEODORE LOTRECK, B.S., Miami University, 1950 St. Petersburg, Fla.
Hospital Administration. Thesis: Variations in cost of radiographic procedures
- ROBERT HEDRICK MARK, B.A., Central College, 1951 Knoxville
Physical Education. Degree without thesis
- ORRIN H. MARX, Ph.B., Northland College, 1948 Ashland, Wis.
Physical Education. Thesis: A survey of the physical education programs in the small high schools of Wisconsin
- ROBERT EDWARD MAYBELL, B.A., University of California, 1938 Offutt, Nebr.
Hospital Administration. Thesis: A proposed plan for a USAF school for hospital administrators
- CORA DAVIDINE MCGINNIS, B.A., Iowa State Teachers College, 1944 Center Point
Education. Thesis: A survey: Age as a factor in beginning handwriting
- JOHN VINCENT MEADE, B.A., State University of Iowa, 1952 Iowa City
English. Thesis: Elementary rhetoric
- CHARLES ANTHONY MERULLA, B.A., State University of Iowa, 1950 Anamosa
Social Work. Degree without thesis
- FRANCIS JOSEPH MORIARTY, B.A., University of Minnesota, 1950 Minneapolis, Minn.
Social Work. Degree without thesis
- ROBERT WYMAN NICKLESS, B.A., State University of Iowa, 1951 Yorkville, Ill.
Sociology. Degree without thesis
- JEAN KENNEDY MORRIS, B.A., Prairie View A. & M. College, 1951 Prairie View, Texas
Journalism. Degree without thesis
- ELAINE JOY NUNNALLY, B.A., State University of Iowa, 1951 Iowa City
Art. Thesis: Some critical problems in poster-making at the secondary level
- THOMAS HENRY OLDRIGHT, B.S.Ed., Northern Illinois State Teachers College, 1951 Iowa City
Speech. Thesis: Methods of sermon preparation and delivery employed by clergymen in Iowa City and Cedar Rapids
- BETTY JEAN PAULS, B.A., State University of Iowa, 1950 Newton
Music. Degree without thesis
- DONALD FRANCIS PLUNKETT, B.S., Loras College, 1951 Hammond, Ind.
Hospital Administration. Thesis: The consideration of constructing a physicians' office building adjacent to the hospital
- KENNETH ELLWOOD POWERS, SR., B.S.C., State University of Iowa, 1952 Oskaloosa
Labor and Industrial Management. Thesis: A study of the personnel policies of the Western Union Telegraph Company
- PHYLLIS CAROLYN RONEY, B.S.Ed., Illinois State Normal University, 1947 Decatur, Ill.
Physical Education. Thesis: The relative effects of emphasizing speed and accuracy in teaching bowling
- ROBERT LEE ROSENBAUM, B.A., State University of Iowa, 1952 Des Moines
Speech Pathology and Audiology. Degree without thesis
- LAVERE HUNTER ROSS, B.A., Knox College, 1936 Davenport
Education. Degree without thesis
- ROBERT STERLING ROST, B.S.C., State University of Iowa, 1951 Ashland, Ore.
General Business. Thesis: Tariff problems of the Pacific coast tuna industry
- IRWIN GERALD SARASON, A.B., Rutgers University, 1951 Newark, N. J.
Psychology. Degree without thesis
- GILBERT SEYMOUR SCHMIDT, B.S., State Teachers College, 1951 Wauwatosa, Wis.
Art. Thesis: The high school art curriculum
- ETHEL EBEL SCOTT, B.A., Iowa State Teachers College, 1943 Waterlow
Education. Thesis: A junior high school curriculum for the mentally retarded student

- DOUGLAS H. SHEPARD, B.A., Brooklyn College, 1951
English. Thesis: What we know about Thomas Hooker Iowa City
- WINIFRED ODES SHEPARD, B.A., Brooklyn College, 1950
Child Welfare. Thesis: Mediated generalization with high interstimulus similarity Brooklyn, N. Y.
- ANGELIN ELIZABETH SHOPE, B.M.Ed., Wheaton College, 1939
Music. Degree without thesis Iowa City
- ROBERT VIRGIL SIBBING, B.M., State University of Iowa, 1951
Music. Thesis: Sonata for alto saxophone and piano Media, Ill.
- JO ANN SIMMONS, B.A., Texas Technological College, 1952
Speech and Dramatic Art. Thesis: The Greek comic chorus in Aristophanes' "The Birds" Lubbock, Texas
- ADA MARIE SCHNATTERLY SNYDER, B.M., MacMurray College, 1939
Music. Degree without thesis Good Hope, Ill.
- CECIL EARL SPATCHER, B.A., Upper Iowa University, 1940
Physical Education. Thesis: A comparison of injuries incurred in high school athletics in Iowa and Wisconsin Storm Lake
- CHARLES DONALD SPIELBERGER, B.A., State University of Iowa, 1951
Psychology. Degree without thesis Atlanta, Ga.
- ERVIN JOSEPH STAWSKI, B.S., Milwaukee State Teachers College, 1951
Art. Thesis: Figure drawing at the high school level Milwaukee, Wis.
- ROBERT LEROY STEWART, B.A., State University of Iowa, 1950
Sociology. Thesis: An empirical test of the reference group hypothesis: A study of junior and senior engineering students at the State University of Iowa Iowa City
- ANNE STRICKLAND, E.S., Columbia University, 1946
English. Thesis: A critical study of Albion W. Tourgee Clear Lake
- EDWARD JACOB SVETINA, B.S., Kent State University, 1950
B.A., Kent State University, 1950
Hospital Administration. Thesis: Can the 250-bed hospital economize by manufacturing pharmaceutical and non-pharmaceutical products? Warren, Ohio
- MERLIN ARTHUR TABER, B.A., Penn College, 1948
Social Work. Degree without thesis Springville
- FRANK HUGH THOMPSON, JR., B.A., University of Wichita, 1950
English. Thesis: The symbolic structure of *Paterson* Iowa City
- ELIZABETH S. TURNER, B.A., Radcliffe College, 1933
Social Work. Degree without thesis Des Moines
- JAMES MILTON URSIN, B.A., St. Olaf College, 1949
Social Work. Degree without thesis Des Moines
- GEORGE VRANESH, B.A., State University of Iowa, 1950
Sociology and Anthropology. Thesis: Classification in American Indian languages Hibbing, Minn.
- RICHARD JOHN WACK, B.A., State University of Iowa, 1951
Speech and Dramatic Art. Thesis: A project in costume and scenic design for a production of Federico Garcia Loren's "Blood Wedding" Norway
- RICHARD GREGORY WARNER, B.S., University of New Hampshire, 1951
Hospital Administration. Thesis: The mealpack system of food service New Britain, Conn.
- EDITH MAY WARREN, B.A., State University of Iowa, 1951
Art. Thesis: Inscriptions in the paintings of the Van Eycks catalogue Gilmore City
- SABURO WATANABE, B.M., Lawrence College, 1941
Music. Degree without thesis Wailuku, T. H.
- WALTER PATTERSON WATERS, JR., B.A., Emory University, 1951
Journalism. Degree without thesis Chamblee, Ga.

- ARTHUR LEWIS WHITMAN, Ph.B., University of Chicago, 1948
Dramatic Art. Thesis: City Hall, a play Iowa City
- JOHN EDWIN WILLIAMS, B.A., University of Richmond, 1951
Psychology. Degree without thesis Bluefield, Va.
- EMERSON KEITH WIRTZ, B.A., State University of Iowa, 1951
Hospital Administration. Thesis: An analysis of the problem of chronic disease and how it relates to Iowa Boone
- HAROLD B. WOHL, B.A., State University of Iowa, 1951
History (American Civilization). Thesis: Thomas Jefferson's theory of history: 1760-1784 Brooklyn, N. Y.
- DONALD JULIUS ZUEHLKE, B.Ed., Whitewater State Teachers College, 1949
Office Management and Business Education. Thesis: Trends in financing and publishing high school yearbooks in the small high schools of Wisconsin Arpin, Wis.



MASTER OF SCIENCE

- VESTA EILEEN ADDISON, B.S., Northwestern State College, 1946 Florien, La.
Nutrition. Thesis: The effect of the amount and source of protein on the blood sugar level following breakfast
- NORMAN KAY BARKER, B.S., Monmouth College, 1951 Lockport, Ill.
Geology. Thesis: The stratigraphy and structure of Eldorado Springs North Quadrangle, Missouri
- WILLIAM EDWIN BECKEL, B.A., Queens University, 1949 Collins Bay, Canada
Zoology. Thesis: Studies on the biology of *Aedes* Mosquitoes I. Field Oviposition of *Aedes Comans* (De Geer) with a method of separating the eggs from the substrate
- WILLIAM ANDREW BROWN, B.S., Tennessee Polytechnic Institute, 1950 Nashville, Tenn.
Mathematics. Degree without thesis
- RALPH PAUL CAHILL, B.A., State University of Iowa, 1950 West Branch
Geology. Degree without thesis
- RICHARD FALLGATTER CONWAY, B.A., State University of Iowa, 1946 Elma
Chemistry. Degree without thesis
- CLARK GLEN DEHAVEN, B.S.M.E., State University of Iowa, 1949 Iowa City
Mechanics and Hydraulics. Thesis: Drag tests on cylinders arranged in a straight grid
- BERNARD JOHANNES DEJONG, Free University, Netherlands Amsterdam, Netherlands
Mathematics. Thesis: The Hermitean linear integral equation over a compact topological group
- FRANCISCO JOSE DE REGIL, B.S. Engr., State University of Iowa, 1951 Merida, Mexico
Mechanical Engineering. Degree without thesis
- DANIEL S. P. EFTAX, B.S., University of Illinois, 1951 Dixon, Ill.
Chemistry. Thesis: The preparation of 5-aryl-3-methyl-2-cyclohexene-1-ones
- EVAN LLOYD FREDERICKSON, B.S., University of Wisconsin, 1947 Iowa City
M.D., University of Wisconsin, 1950
Anesthesiology. Thesis: The influence of Xylocaine and Cycloine on cardiac automaticity in the dog
- ROBERT WAYNE GOETTSCH, B.S. Pharm., University of Colorado, 1951 Elliott
Pharmacy. Thesis: Particle size determination and dispersion in dermatological preparations
- WILLIAM GEORGE GOODALE, D.D.S., State University of Iowa, 1951 Farley
Pedodontics. Thesis: An evaluation of pulp therapy in the deciduous and young permanent teeth
- FRANK ANTHONY HAAG, B.S.C.E., State University of Iowa, 1948 Sioux Falls, S. Dak.
Civil Engineering. Thesis: Development of a tension splice for timber
- THOMAS PAUL HARRINGTON, B.A., State University of Iowa, 1950 Hammond, Ind.
Chemistry. Thesis: Preparation of polymeric derivatives of Amino Acids
- HAROLD GOLDEN HAZELLETT, B.A., Iowa State Teachers College, 1947 Huntington, W. Va.
Mathematics. Thesis: A survey of mathematical needs of graduates of the Washington, Iowa, High School
- EILEEN YVONNE HOTE, B.S., University of North Dakota, 1952 East Grand Forks, Minn.
Nutrition. Thesis: The effects of protein and carbohydrate distribution on the blood sugar of diabetic patients
- RICHARD LOUIS HOYE, B.S., Creighton University, 1951 Council Bluffs
Mathematics. Degree without thesis
- FELIX ANTHONY JACQUES, B.A., State University of Iowa, 1950 Kansas City, Kans.
Zoology. Thesis: The comparative histology of the stomachs of four rodents: *Rattus*, *Cricetus*, *Peromyscus*, and *Microtus*

- BOB ALBERT JESSUP, A.B., Harvard University, 1939 Iowa City
Mathematics. Thesis: Existence theorems for solutions of ordinary differential equations
- ARTHUR KERR JOHNSTON, B.E., University of Sydney, 1935 New Lambton, Australia
Mechanics and Hydraulics. Thesis: An exploratory study of vortex rings
- MORISABURO KATAKAMI, B.Eng., Tokyo Imperial University, 1947 Tokyo, Japan
Electrical Engineering. Thesis: Study of stability criterion
- EDWIN CARL LOWENBERG, B.S.E.E., State University of Iowa, 1951 Iowa City
Electrical Engineering. Thesis: An investigation of the phase shift oscillator
- PAUL LUDWIG LOWINGER, B.S., Northwestern University, 1945 Iowa City
M.D., State University of Iowa, 1949
Psychiatry. Thesis: A study of the transference relationship in psychotherapy without the physical presence of the physician
- IRENE ELIZABETH MILLER, B.S.C.E., State University of Iowa, 1947 Minneapolis, Minn.
Mechanics and Hydraulics. Degree without thesis
- ROYALL TYLER MOORE, B.S., Michigan State College, 1951 Ithaca, N. Y.
Botany. Thesis: The North Central Helicosporae
- IBRAHIM MAHMOUD MOSTAFA EL ASSIOUTY, B.C.Eng., Fouad I University, 1947 Giza, Egypt
M.Eng., Fouad I University, 1951
Mechanics and Hydraulics. Degree without thesis
- KAGURU NOBA, A.B., Grinnell College, 1949 Hilo, T. H.
Zoology. Thesis: Blendor and pepsin digest methods of isolating *Trichinella Spiralis* larvae
- MEHMET OKUTAN, B.S., Robert College, Turkey, 1951 Emirdag, Turkey
Mechanical Engineering. Degree without thesis
- JACK DUANE PEARL, B.A., State University of Iowa, 1950 Topeka, Kans.
Geology. Thesis: The stratigraphy and structure of the Tiffin Quadrangle, Missouri
- MARGARET SARA PETERSEN, B.S.C.E., State University of Iowa, 1947 Rock Island, Ill.
Mechanics and Hydraulics. Degree without thesis
- ROBERT CHARLES PLACIOUS, B.S., University of Rochester, 1950 Washington, D. C.
Physics. Thesis: The efficiency of a hydrogen filled Geiger Counter
- ROBERT WILLIAM PUMPER, B.A., State University of Iowa, 1951 Clinton
Bacteriology. Thesis: Toxicity studies on influenza virus
- ERNEST CLARK RAY, B.A., State University of Iowa, 1951 St. Joseph, Mo.
Physics. Thesis: Integrated cosmic ray intensity as a function of altitude
- MARVIN LEROY RIEDEHEL, B.A., Cornell College, 1949 Wheatland
Physiology. Thesis: The nitrogen content of tooth pulp
- RALPH EDWIN SCHAEFFER, B.S., Marquette University, 1950 Barton, Wis.
Chemistry. Thesis: Studies on the structure of compounds resulting from reactions of flavylum salts and secondary amines
- ROBERT JOHN SCHROEDER, A.B., Cornell College, 1950 Freeport, Ill.
Geology. Thesis: Stratigraphy and structure of the southern two-thirds of the Glenrock Quadrangle, Converse County, Wyoming
- CHARLES THEODORE SEEL, A.B., North Central College, 1950 Geneva, Ill.
Zoology. Thesis: Radioautographic studies of the thyroid glands and ultimobranchial bodies in amphibians
- JOHN ROBERT SIEFFARD, B.S.C.E., University of Colorado, 1951 Monte Vista, Colo.
Mechanics and Hydraulics. Thesis: Effect of the reduction of stilling basin sidewalls on tailwater elevation in the basin
- BASIL NICHOLAS SPIRTOS, B.A., Ohio State University, 1950 Campbell, Ohio
Anatomy. Thesis: The influence of Cortisone on the nervous tissue of the cat and rat and its action on the adrenal and thyroid glands of the cat

- CARROLL DEAN STENBERG, B.S., University of Kansas, 1951 Jewell
Geology. Thesis: Stratigraphy and structure of the Roscoe Quadrangle, Missouri
- MALCOLM RAY STUART, B.A., Evansville College, 1951 Evansville, Ind.
Physics. Thesis: Creep in lead single crystals
- FRANCIS DEAN THOMSON, B.A., Tarkio College, 1951 Shenandoah
Chemistry. Thesis: Use of methanesulfonic acid as a solvent for polarographic studies
- HAROLD RUPERT VALLENTINE, B.E. in C.E., University of Sydney, 1943 Gladesville, Australia
Mechanics and Hydraulics. Thesis: Transportation of sand in a pipe
- ROBERT GEORGE WARFIELD, B.A., State University of Iowa, 1951 Sioux City
Geology. Thesis: The stratigraphy and structure of the northeast quarter of the Richwoods Quadrangle, Missouri
- JAMES ADDUS WHITNEY, B.A., San Diego State College, 1949 National City, Calif.
Physics. Thesis: Electrolytic polishing of zinc single crystals
- ROBERT EUGENE YAGER, B.A., Iowa State Teachers College, 1950 Coon Rapids
Botany. Thesis: The conditions influencing the kinetics of the growth of plant cells



MASTER OF FINE ARTS

- OTTO GEORGE BERWANGER, B.A., State University of Iowa, 1950
Art. Thesis: The realization of figurative and non-figurative form Dubuque
- CHARLES MARSH CAMPBELL, B.A., University of Michigan, 1950
English: Creative Writing. Thesis: Attitudes Jackson, Mich.
- RICHARD TITUS CERVENE, A.B., Grinnell College, 1951
Art. Thesis: Basic principles of contemporary primitives Fort Dodge
- RACHEL EYE CHESTER, B.A., Hood College, 1951
Art. Thesis: An approach to painting Washington, D. C.
- SHERWOOD CLARK COLLINS, B.S., Kansas State College, 1948
Dramatic Art. Thesis: "Where There's Smoke" Dwight, Kans.
- JAMES TRAMMELL COX, A.B., University of North Carolina, 1942
English: Creative Writing. Thesis: High Treason Iowa City
- WILLIAM TURNER GOWER, B.M., University of Denver, 1947
M.M., University of Denver, 1951
Music. Thesis: Performance of selected works for oboe, flute, and saxophone Greeley, Colo.
- DOROTHY BRAUN HANSEN, B.A., Carleton College, 1951
Art. Thesis: The relationship of feeling and sentimentality in art Iowa City
- JOHN ROBERT HANSON, B.A., Concordia College, 1951
M.A., State University of Iowa, 1952
Music. Thesis: Performance of solo and ensemble literature for trumpet Osakis, Minn.
- COURTNEY JOHNSON, JR., A.B., Loyola College, 1949
English: Creative Writing. Thesis: Poems South Bend, Ind.
- EUNICE MAY JOHNSON, B.F.A., University of Kansas, 1944
Art. Thesis: The art of the Negro Topeka, Kans.
- RICHARD EDWARD KLEEMAN, B.F.A., State University of Iowa, 1951
Art. Thesis: Bergson, futurism, and cubism Auburn, Ind.
- ARTHUR ADAMS LAMBERT, B.A., State University of Iowa, 1948
Music. Thesis: Notes on selected piano music presented in performance by the author Iowa City
- FREDERICK DARWIN LEACH, B.A., James Millikin University, 1948
M.A., State University of Iowa, 1949
Art. Thesis: A muse for the Twentieth Century Bergson, surrealism and existentialism Iowa City
- JOSEPH HENRY LONAS, B.A., College of William and Mary, 1949
Art. Thesis: The keys of Saint Peter and the Roman God Janus Manassas, Va.
- EILEEN ANNE O'MULLEN, B. of Letters, New Jersey College for Women, 1949
English: Creative Writing. Thesis: Her Father's House New York, N. Y.
- DON WILMETH POWELL, B.S., Kirksville State Teachers College, 1950
Dramatic Art. Thesis: A project in design for the production of Dion Boucicault's play, "Streets of New York" Memphis, Mo.
- ROBERT STEPHEN RANDOLPH, B.A., State University of Iowa, 1950
Art. Thesis: Basic principles of organic architecture Centerville
- GERALD JOSEPH ROITSTEIN, A.B., University of Omaha, 1951
English: Creative Writing. Thesis: The Castles in Spain, and other stories Council Bluffs
- RODNEY JACK ROTH, B.A., Pennsylvania State College, 1951
Art. Thesis: Zen Buddhism and the New York school Punxsutawney, Pa.
- DONNA LOU STRAY, B.A., State University of Iowa, 1951
Art. Thesis: Japanese domestic architecture Osceola
- RUTH EILEEN VERNHOLT, B.A., State University of Iowa, 1951
Music. Thesis: A comprehensive project in the study and performance of piano literature Iowa City

LIBERAL ARTS

Presentation by Dean Dewey B. Scult

BACHELOR OF ARTS

Richard Leigh Abbott <i>Zoology</i>	Davenport	Kathleen Elizabeth Behnke <i>General Science—Liberal Arts and Medicine</i>	Parkersburg
Karilyn Kay Adams <i>English Honors</i>	Des Moines	Arden Eugene Behrendsen <i>Art</i>	Gilmore City
Marilyn May Adams <i>English Honors</i>	Des Moines	Geraldine Beulah Bender <i>Home Economics</i>	Waterloo
Arlene Graham Allan <i>Sociology</i>	Manchester	Marion Emily Best <i>English</i>	Mason City
Robert Edward Allerton <i>Speech</i>	Council Bluffs	Juanita Mae Bethke <i>French</i>	Cherokee
James Robert Allingham <i>English</i>	Cedar Rapids	Virginia Glenn Billings <i>Speech</i>	Boscobel, Wis.
Mary Joyce Allison <i>General Science</i>	Olathe, Kans.	Donna Rae Bittle <i>English Honors</i>	Harlan
Margaret Irene Almberg <i>Psychology</i>	Chicago, Ill.	Keith Roger Blunt <i>Sociology</i>	Charles City
Alfred Milton Andersen <i>History</i>	Iowa City	William Charles Bock <i>General Science</i>	Maquoketa
Robert Anderson <i>Economics</i>	Spencer	Gerald Lee Bolinsack <i>Speech</i>	Marshalltown
Janice Mary Anthony <i>Sociology</i>	Sioux City	Marianne Boling <i>Home Economics</i>	Kewanee, Ill.
Phyllis Reta Apland <i>Sociology</i>	Cedar Rapids	*Allan Evers Bovey <i>English</i>	Traer
Randall Leroy Arends <i>Physical Education</i>	Kamrar	James Henry Bowermaster <i>Journalism</i>	Fairfield
Margaret Ann Artley <i>Art</i>	Hampton	Ned Alan Bowman <i>Speech and Dramatic Art</i>	Bloomington, Ind.
Sarah Genevieve Bailey <i>Sociology</i>	Ottamwa	Barbara Rae Boyd <i>Journalism</i>	Cedar Rapids
Chris Nick Bakritges <i>General Science</i>	Mason City	Charles Edward Boylan <i>General Science</i>	Charles City
Lloyd Richard Ball <i>Political Science</i>	Hawarden	Susan Jane Boyle <i>Sociology</i>	Clear Lake
Jean Barber <i>English</i>	Spencer	Charles Armstrong Branden <i>Speech and Dramatic Art</i>	St. Louis, Mo.
Walter Bernard Barnes II <i>General Science</i>	Des Moines	Barbara Jean Brannen <i>Education</i>	Sioux City
Joan Judith Barrett <i>Speech Pathology</i>	Davenport	Marvin Joel Braverman <i>Journalism</i>	Iowa City
Dorothy Janet Bartel <i>Education</i>	Council Bluffs	Marjorie Frances Briekner <i>Political Science</i>	Decorah
Beverly Ann Bartels <i>Occupational Therapy</i>	Dubuque	Janet Elizabeth Bridges <i>Home Economics</i>	Highland Park, Ill.
Kathryn Lou Beckman <i>English</i>	Grundy Center	Rodney Hugh Brink <i>History</i>	Estherville
Shirley Ann Beddow <i>Journalism</i>	Dubuque	John Burton Britzmana <i>General Science</i>	Hawarden
Phyllis Elaine Beebe <i>Education</i>	Bedford	Otto Peter Broeder, Jr. <i>Physical Education</i>	St. Louis, Mo.
Bonnie Lee Beekman <i>Physical Education</i>	Atlantic	Maebeth Elise Brown <i>General Science</i>	Bettendorf
John Alfred Beekman <i>Mathematics</i>	La Crosse, Wis.	Sharon Catharine Brown <i>English</i>	Iowa City
Marian Jean Beers <i>Home Economics</i>	Waterloo	Thomas Andrew Brown <i>Mathematics</i>	Iowa City

Hollis Edward Brownlee <i>Physical Education</i>	Ottumwa	Jane Hales Daisley <i>Home Economics</i>	Chicago, Ill.
Edward Thomas Buckley <i>Psychology</i>	Ottumwa	Dean Ferris Davis <i>Speech</i>	Ottumwa
Nancy Jane Barnam <i>Speech and Dramatic Art</i>	Medina, N. Y.	Mary Frances Davis <i>English</i>	Iowa City
Harvey Pace Burnham <i>General Science</i>	Iowa City	Alvin Willis DeJong <i>Political Science</i>	Leighton
Ronald Dudley Butler <i>Journalism</i>	Newton	Glen Walter Dilly <i>English</i>	Ashtor
Jo Ann Buzzetti <i>Art</i>	Williams	Donald David Dominy <i>Social Studies</i>	Estherville
Nancy Lee Cadman <i>Home Economics</i>	Dubuque	Kathryn Ann Doornink <i>Speech</i>	Iowa City
Beverly Jean Canady <i>English</i>	Boone	Anne Elizabeth Draffkorn <i>Psychology</i>	Chicago, Ill.
Helen Astrid Carlson <i>Occupational Therapy</i>	Decorah	Patricia Maye Draper <i>Psychology</i>	Jewell
*Joseph Anton Cermak <i>General Science</i>	Iowa City	Elizabeth Ann Dubansky <i>Sociology</i>	Des Moines
*Thomas Lloyd Chadima <i>History</i>	Cedar Rapids	Ruth Ann Duffy <i>English</i>	Churdan
Mary Ann Chavez <i>Physical Education</i>	Davenport	Elizabeth Glendinning Duhigg <i>History</i>	Iowa City
Rex Gilman Chase <i>Economics</i>	Dunlap	James Lloyd Easterday <i>Economics</i>	Burlington
Cameron L. Christensen <i>General Science</i>	Woden	Frank Cornwall Eckmair <i>Art</i>	Gilbertsville, N. Y.
Richard Dean Christerson <i>Speech</i>	Marshalltown	Milton Paul Ehrlich <i>Psychology</i>	Maspeth, N. Y.
John R. Christian <i>Economics</i>	Red Oak	Wilford Hervey Emmons <i>General Science</i>	Iowa City
Patricia Church <i>Sociology</i>	Des Moines	Evelyn Mae Eng <i>Sociology</i>	Carroll
James Richard Cilek <i>Political Science</i>	Iowa City	David Pearson Etter <i>History</i>	Burlingame, Calif.
William Robert Clabby <i>Journalism</i>	Waterloo	Glenn Arlo Evans <i>Geography</i>	Mason City
Patti Murrie Clarke <i>Home Economics</i>	Cedar Rapids	Joan Kathleen Fanter <i>History</i>	Crystal Lake, Ill.
Richard Gurnee Coe <i>Geography</i>	Clinton	Norinne Alfrieda Fenner <i>Home Economics</i>	Cedar Rapids
Jack Cohn <i>Physics</i>	Rock Island, Ill.	Richard John Ferguson <i>Political Science</i>	Clinton
Beverly Ann Colville <i>Sociology</i>	New Sharon	Mary Lucy Flynn <i>Sociology</i>	Dubuque
Joyce Hilma Conner <i>Sociology</i>	Keokuk	Pauline Faye Ford <i>English</i>	Central City
Don Henry Coombs <i>Journalism</i>	Iowa City	Ellen Louise Forester <i>Speech Pathology</i>	Du Quoin, Ill.
Frank Seymoure Copeland <i>Mathematics</i>	North Liberty	James Ellery Foster <i>Journalism</i>	Wellman
Pierce Austin Cornelius <i>General Science</i>	Olympia, Wash.	Janet Louise Frink <i>Art</i>	Pleasant Valley
Dale Erwin Cornell <i>Spanish</i>	Vinton	Vivian Samuella Frasinger <i>English</i>	Cedar Rapids
Carol Jean Crandall <i>Art</i>	Lake City	Ralph Edgar Fretty <i>Economics</i>	Des Moines
Charles Samuel Crook, Jr. <i>General Science—Liberal Arts and Dentistry</i>	Des Moines	Samuel Benjamin Fried <i>Sociology</i>	Council Bluffs
Jack Junior Daek <i>Occupational Therapy</i>	Knoxville	Alton Alois Frommelt <i>Zoology</i>	Guttenberg

Frederick Fuerste, Jr. <i>General Science—Liberal Arts and Medicine</i>	Brentwood, Mo.	Helen Joanne Hartle <i>Home Economics</i>	Des Moines
Joan Lee Fuller <i>English Honors</i>	Centerville	Kathryn Ann Haub <i>English</i>	Lohrville
Barbara Alice Gaines <i>English</i>	Cedar Rapids	Lois Gordon Hays <i>Sociology</i>	Des Moines
Velma Ann Gannon <i>Speech Pathology</i>	Chicago, Ill.	Dale Irwin Hecox <i>General Science</i>	Clarion
James Edward Garman <i>General Science—Liberal Arts and Medicine</i>	Burt	Alvin Duane Hedges <i>Sociology</i>	Ottumwa
George Emil Gartzke <i>Political Science</i>	Madison, Wis.	Carla May Heller <i>Speech Pathology</i>	Appleton, Wis.
Jeanette Marie Franke Gartzke <i>German</i>	Amana	James Y. Hendricks <i>General Science</i>	Jefferson
Mary Jo Garvey <i>Sociology</i>	Galena, Ill.	Friedrich Wolfgang Herrmann <i>French</i>	Plauen, Germany
Alan Norton Gendler <i>Psychology</i>	Ottumwa	Thomas Wilbur Herrmann <i>Speech and Dramatic Art</i>	Rochelle, Ill.
Roy Earl Gerard <i>Sociology</i>	Marengo	John Joseph Hess <i>Economics</i>	Des Moines
Barbara Ann Gibson <i>European Literature and Thought</i>	Iowa City	Richard Hickenbottom <i>Political Science</i>	Clinton
Ruth Voelckers Gill <i>History</i>	Iowa City	Verla Jean Hickey <i>English</i>	Perry
Grace Marion Goltz <i>Education</i>	Sioux City	Mary Ann Petersen Higley <i>Education</i>	Minden
Gaylord Owen Graham <i>Speech and Dramatic Art</i>	Iowa City	Eugene Walter Hoff <i>Journalism</i>	Mondamin
Richard Davis Grater <i>General Science</i>	Wilmette, Ill.	Lloyd Wayne Holsinger <i>Psychology</i>	Central City
Mary Gratiot <i>General Science</i>	Dubuque	Betty Hopkins <i>Sociology</i>	Cedar Rapids
Helen Mary Gray <i>Home Economics</i>	Mason City	Patricia Ann Hovorka <i>Zoology</i>	Cedar Rapids
Mary Lou Bell Gray <i>Psychology</i>	Ottumwa	Dan Franklin Howard <i>Art</i>	Iowa City
Richard Edison Groe <i>Political Science</i>	Lake Mills	Joan Sidlinger Habbell <i>Art</i>	Cedar Rapids
Janet Mary Groene <i>Home Economics</i>	Fort Madison	Lorraine Muriel Huisenga <i>Physical Education</i>	Wall Lake
Edward Christian Halbach, Jr. <i>Economics</i>	Clinton	Adeline Elizabeth Humphreys <i>Education</i>	Wapello
Joseph James Halbach <i>Economics—Liberal Arts and Law</i>	Clinton	Roy Merle Hutchinson <i>General Science</i>	Fort Dodge
Allen Edwin Hall <i>Speech</i>	San Diego, Calif.	Dorothy Jane Hynden <i>Education</i>	Cedar Rapids
David Hall <i>Speech</i>	Chapel Hill, N. C.	Martha Hale Ince <i>European Literature and Thought</i>	Burlington
LeRoy Gilbert Haluska <i>Political Science</i>	Albia	Sara Ann Irish <i>Speech Pathology</i>	Forest City
Virgil Melvin Hancher, Jr. <i>Mathematics</i>	Iowa City	Dian Irwin <i>Sociology</i>	Sac City
Mary Louise Handley <i>Sociology</i>	San Francisco, Calif.	Shirley Ann Iten <i>Sociology</i>	Clinton
Ira Lawrence Hardens <i>General Science</i>	Muscataine	Donald Paul Jacobsen <i>General Science</i>	Coon Rapids
VerJean Elizabeth Hark <i>Speech Pathology</i>	Dysart	Donald Dean Jacobson <i>Journalism</i>	Bradgate
John Richard Harkins <i>Speech and Dramatic Art</i>	St. Louis, Mo.	Gloria Ardith Jamonius <i>Psychology</i>	Ackley

Billy Gene Jerner <i>Journalism</i>	Wilton Junction	Herbert Eugene Larson <i>General Science</i>	Forest City
Robert Lee Jensen <i>General Science</i>	West Branch	Edward E. Lauvstad <i>General Science—Liberal Arts and Medicine</i>	Cornlag
Russell Robert Jensen <i>Mathematics</i>	Denison	Grace Eloise Laxson <i>Education</i>	Earlville
John Richard Jewel <i>Psychology</i>	Davenport	Lauri Louise Leib <i>Psychology</i>	Iowa City
Patricia Anne Jipson <i>Music</i>	Iowa City	John O'Neill Lenaghan <i>Classics</i>	Clinton
Wayne Ray Jipson <i>Music</i>	Iowa City	Carole Whitebook Levine <i>Speech Pathology</i>	Iowa City
Kenneth M. Jchannsen <i>Speech</i>	Denison	Marianne Life <i>Education</i>	Oskaloosa
Charles Lee Johnson <i>Speech Pathology</i>	Perrysburg, Ohio	Sang Un Lim <i>Sociology</i>	Seoul, Korea
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Shirley Anne Jone <i>Occupational Therapy</i>	Des Moines	Rose Marie Listebarger <i>Sociology</i>	Fairfax
Maureen Claudia Kane <i>Sociology</i>	Des Moines	Marjorie Ann Livengood <i>English</i>	Des Moines
Betty Marie Kanzell <i>Speech</i>	New York, N. Y.	Dianne Louise Longstreth <i>Home Economics</i>	Elma
Dean Richard Kenny <i>Journalism</i>	Ridgewood, N. J.	Bradley Max Loomer <i>History</i>	Mason City
Gene Edward Kenny <i>Speech</i>	Ridgewood, N. J.	Robert James Loots <i>Economics—Liberal Arts and Law</i>	Clinton
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Edna Maryln Kincaid <i>Mathematics</i>	Sidney	Margaret Ann Lundy <i>Economics</i>	Eldora
Shirley Grace King <i>Home Economics</i>	Oelwein	Peggie Lou Lutz <i>Political Science</i>	Des Moines
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Roger Lee Klemas <i>Journalism</i>	Mason City	Harold Alfred Macon <i>General Science</i>	Cedar Falls
Donald Wilson Knoepfler <i>Speech</i>	Iowa City	Henry Alexander Madeksza <i>Sociology</i>	Bridgewater, Mass.
Thomas Edward Kochler, Jr. <i>Journalism</i>	Davenport	Richard Kent Madison <i>Mathematics</i>	Shenandoah
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Roger Lee Kroth <i>European Literature and Thought</i>	Iowa City	Charles Dyer Martin <i>General Science</i>	Davenport
Sharla Dawn Kwidera <i>Music</i>	Toledo	Rex Marshon Mathis <i>General Science</i>	Des Moines
Mary Esther Laad <i>History</i>	Iowa City	Mary Elizabeth Maurer <i>English</i>	Le Mars
<i>European Literature and Thought</i>		Matthew Joseph Maughan <i>General Science</i>	Leon
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Ann Kathleen Larson <i>Speech Pathology</i>	Harlan	Richard Allan McDaniel <i>Journalism</i>	Letts

Robert Delos McDonald <i>Economics</i>	Dubuque	James Fredrick Olmsted <i>Mathematics</i>	Des Moines
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Marilyn Beth McMullen <i>General Science</i>	Dubuque	Sue Ottenheimer <i>Psychology</i>	Highland Park, Ill.
Kathryn Elaine McNamara <i>Music</i>	Anamosa	Nancy Anne Ovaas <i>English</i>	Clinton
Dean Lee Roy Meine <i>Political Science—Liberal Arts and Law</i>	Whittimore	JoAnn J. Packey <i>Journalism</i>	Des Moines
Ann Gracey Meloy <i>Sociology</i>	Cherokee	Nancy Ellen Paddock <i>Spanish</i>	Clinton
Edith Constance Menard <i>Home Economics</i>	Sergeant Bluff	Martha Paine <i>Spanish</i>	Clinton
James Francis Mergen <i>Speech</i>	Fennimore, Wis.	John Joseph Paensky <i>Geology</i>	Cedar Rapids
Carolyn Rey Mericle <i>Occupational Therapy</i>	Toledo	Emily Penningroth <i>Home Economics</i>	St. Petersburg, Fla.
Roland William Merner <i>Political Science</i>	Cedar Falls	Barbara Joyce Peterson <i>History</i>	Estherville
Richard John Merrick <i>English</i>	Des Moines	Marilyn Rae Peterson <i>History</i>	Council Bluffs
Jean Elizabeth Metzger <i>Physical Welfare</i>	Iowa City	Patricia Mae Pew <i>Education</i>	Le Mars
Joan Ruth Miles <i>English</i>	Clear Lake	Helen Elizabeth Phillips <i>Education</i>	Des Moines
Morton Jay Miles <i>Political Science (International Relations)</i>	Des Moines	William Franklin Pitlik <i>History</i>	Cedar Rapids
Alva J. Miller <i>General Science</i>	Sioux City	Charles Lloyd Pitzer, Jr. <i>Chemistry</i>	Burlington
Ervin Swan Miller, Jr. <i>General Science</i>	Sloan	William Charles Powers <i>Economics</i>	Cresco
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Barbara Garnett Moore <i>Occupational Therapy</i>	Flossmoor, Ill.	Keith Eldon Putbrese <i>Philosophy</i>	Auburn
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Don Dee Olmstead <i>Psychology</i>	Des Moines	John Arthur Ritschel, Jr. <i>Speech</i>	Peoria, Ill.

Ronald Dean Rogers <i>Music</i>	Ainsworth	Roger John Stachour <i>Journalism</i>	Grundy Center
Dolores Iva Rombaugh <i>Education</i>	Keokuk	Floyd James Starr <i>Art</i>	Fort Madison
Donald Edward Rose <i>Sociology</i>	Spencer	Clarence Edward Statton <i>General Science</i>	Boone
Helen Joan Roseberry <i>Sociology</i>	Le Mars	Gayload Lee Staveley <i>Psychology</i>	Traer
June Elizabeth Rosenow <i>Spanish</i>	Estherville	*Theodore Paul Stecher <i>Philosophy</i>	Waterloo
Robert James Ross <i>Journalism</i>	Minburn	Arnold Edward Steele <i>Zoology</i>	Davenport
Helen Louise Rumbaugh <i>Bacteriology</i>	Mingo	Matt Frahm Steffen <i>Economics</i>	Davenport
Rex B. Ruther <i>Political Science</i>	Des Moines	Roberta Jean Stephenson <i>Speech Pathology</i>	Oskaloosa
Mary Luella Salls <i>Occupational Therapy</i>	Earlville	Robert Edward Stevens <i>General Science</i>	Clinton
Betty Anne Sanborn <i>Art</i>	Sioux City	James Fleming Stiles <i>General Science</i>	West Des Moines
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Mary Ann Schroeder <i>Education</i>	Le Mars	Joan Elaine Struve <i>Sociology</i>	Clinton
Walter Carl Schroeder <i>Political Science—Liberal Arts and Law</i>	Davenport	Edith Lucille Summa <i>History</i>	George
Marshall Hillel Sclarow <i>Political Science—Liberal Arts and Law</i>	Ames	Gerald Clarence Sumner <i>General Science</i>	West Branch
Darlene Elizabeth Scott <i>Sociology</i>	Fort Dodge	Joyce Ann Sutter <i>Art</i>	St. Louis, Mo.
Richard Eugene Secor <i>Journalism</i>	Ottumwa	Harriet Elizabeth Sutton <i>Home Economics</i>	Ottumwa
Theodore M. Seldin <i>Economics—Liberal Arts and Law</i>	Council Bluffs	John Lewis Swank <i>Psychology</i>	Iowa City
Marilyn Claire Seroy <i>Sociology</i>	Independence, Mo.	Richard Bruce Swank <i>Psychology</i>	Ames
Richard Reynolds Severson <i>Political Science—Liberal Arts and Law</i>	Waukon	Frances Laurene Swartz <i>Journalism</i>	Iowa Falls
Jeanne Caroline Shanahan <i>English</i>	Gary, Ind.	Richard Wallace Switzer <i>General Science</i>	Nevada
Irwin Louis Shapiro <i>General Science</i>	New York, N. Y.	Chavarche Tchalekian <i>General Science</i>	Alexandria, Egypt
Thomas Daniel Shea <i>Sociology</i>	Duncombe	Harold Allen Teeter <i>Political Science—Liberal Arts and Law</i>	Algona
Thaine Verlon Shinkle <i>English</i>	Iowa City	Jay Dean Terry <i>General Science</i>	Iowa City
Verlyn Vaux Siglin <i>Art</i>	Mason City	Patricia Anne Thomas <i>Sociology</i>	Traer
Mary Barba Simons <i>Psychology</i>	Iowa City	William Dean Thomas <i>Art</i>	Iowa City
Donna Rhae Sippel <i>Art</i>	Carthage, Ill.	*Dwight O. Thompson <i>Political Science</i>	Council Bluffs
Richard Leslie Sjulian <i>Psychology</i>	Hamburg	Ernest Clifford Thompson, Jr. <i>Political Science</i>	Aitkin, Minn.
Bill W. Sorenson <i>Physical Education</i>	Jefferson	Gary Thompson <i>Speech Pathology</i>	Iowa City
Shelby E. Spelman <i>Speech Pathology</i>	Rockford, Ill.	Herbert Cecil Thompson <i>General Science</i>	Leland

*Degree Conferred February 7, 1953

Margaret Ann Thompson <i>Physical Welfare</i>	Leland	Charles Kenworthy Wheeler <i>Journalism</i>	Des Moines
Lois Jean Tollinger <i>Sociology</i>	Council Bluffs	James Patrick White <i>History</i>	Iowa City
Vern Hopson Trowbridge <i>General Science</i>	Burlington	Barbara Claire Wick <i>Home Economics</i>	Iowa City
James Glenn Turk <i>French</i>	Gurnee, Ill.	JoAnn Williams <i>Speech Pathology</i>	Atlantic
Henry George Ullerich <i>Journalism</i>	Charter Oak	Janice Ferguson Wilson <i>Speech and Dramatic Art</i>	El Dorado, Kans.
Sally Jean Ullman <i>Economics</i>	Fairfield	Martha Louise Wilson <i>Speech Pathology</i>	Tucson, Ariz.
Peter Denne VanOosterhout <i>Economics—Liberal Arts and Law</i>	Orange City	Verna June Wilson <i>Sociology</i>	Iowa City
Peggy Ann VanPatten <i>Speech and Dramatic Art</i>	New Virginia	Jan Wimp <i>Speech and Dramatic Art</i>	Kirksville, Mo.
Virginia Lee Vavra <i>Journalism</i>	Cedar Rapids	Delia Bennett Wishnew <i>Journalism</i>	Wheeling, W. Va.
James Alexander Vickery <i>Journalism</i>	Des Moines	Susan Massie Wood <i>Speech and Dramatic Art</i>	Racine, Wis.
Joanne Mary Vogt <i>Physical Welfare</i>	Springfield, Ill.	Warren Kirchner Wood <i>Political Science—Liberal Arts and Law</i>	Davenport
JoAnne Margaret Voss <i>French</i>	Fort Dodge	Jane Susan Woodburn <i>Occupational Therapy</i>	Iowa City
William Bond Walker <i>Art</i>	Brownsville, Tenn.	Charles Allan Woodruff <i>General Science</i>	Burlington
Donald Henry Wallace <i>Journalism</i>	Venetia, Pa.	Don David Woodruff <i>English</i>	Mediapolis
John Morgan Wanamaker <i>General Science</i>	Hamburg	Carolyn Joy Wren <i>Music</i>	Davenport
Richard Allan Watson <i>Philosophy</i>	Sheffield	Martha Lee Wright <i>Sociology</i>	Burlington
Joan Lorraine Welding <i>Political Science</i>	West Point	Mary Ellen Wygle <i>History</i>	Clarksville
Ann Shimer Wells <i>History</i>	Story City	Sally Ann Yeates <i>English</i>	Greenfield
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Winston Blaine Ditto	Burlington	William Smith Moeller	Des Moines
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Jack Kelly Gardner	Fairmont, Minn.	Donald William Ping	Muscatine
Riley Lavender Geary	Phoenix, Ariz.	Robert Arthur Rollstin	Iowa City
Dexter Homer Hake	Reinbeck	William Earl Roudybush	Diagonal
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Vernon Gene Helt	Sioux City	Richard Wayne Shropshire	Des Moines
Robert Fenton Henkle	Iowa City	William Theodore Shultz	Richland
Paul Oscar Herrmann	Dubuque	Robert Joseph Smith	Des Moines
Donald Howard Hill	Iowa City	Sidney Allen Smith	Fremont
Robert Burns Hilley	Des Moines	William Arthur Stein	Billings, Mont.
George Henry Hiltz	Bowbells, N. Dak.	George Edward Stevens	Wausau, Wis.
James Allen Holbert	Washington	Laverne Leo Tinkey	Cedar Falls
Ralph John Holloway	Iowa City	Robert Erwin Tribble	Hayti, Mo.
Herbert Richard Hornberger	Des Moines	John Bendick Tweeten	Swea City
Arthur Walter Horst	Sioux City	Richard Walden Ulmaa	Sioux City
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 Ames
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 Jewell
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Sioux City
 What Cheer
 Lost Nation
 Clinton
 Sioux City
 Cedar Falls
 Waterloo
 Des Moines
 Melcher
 Denver
 Iowa City
 Gracettinger
 Radcliffe
 Spencer
 Calmar
 Red Oak
 Oskaloosa
 Ogden
 Charles City
 Iowa City
 Parkersburg
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 Frederic Leon Brown
 Harry Wesley Brown
 Jerold Dean Buddenhagen
 William Drayton Caldwell
 David Royce Chambers
 Donald Dean Clay
 William Manford Criswell
 Merlin Burdette Danielsen
 George Eugene Davis
 Andrew Clifford DeNiko
 Orville Raymond Doecker
 Albert Franklin Eby
 Noel Dean Evans
 Mary Ellen Fitzgerald
 Evelyn Eileen Fuller
 James Nicholas Gillman, Jr.
 William Champ Harovee, Jr.

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 Williamsburg
 Iowa City
 Davenport
 Missouri Valley
 Keokuk
 Allison
 Holly Springs, Miss.
 Oakland
 Mt. Pleasant
 Oakland
 Moline, Ill.
 Maquoketa
 Iowa City
 Frederika
 Marengo
 Oakland
 Cresco
 San Diego, Calif.
 Iowa City
 Lenox

Gerald Edwin Killion
 Donald Eugene King
 James Bernard Klenske
 Donald C. Krauss
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 Marion Lee McCann
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 Gene Burdette Skaar
 Herbert Alan Smith
 Muriel McCoy Smith
 David Frank Thompson
 Stanley Frank Travnicek
 James Augustus Waters
 Dan Lee Young

Red Oak
 Manchester
 New Hampton
 Amana
 Iowa City
 Iowa City
 Carthage, Ill.
 Waterloo
 Galena, Ill.
 Spencer
 Anamosa
 Rock Valley
 Cedar Rapids
 Mediapolis
 Gaze
 Davenport
 Davenport
 DeWitt
 Cedar Rapids
 Postville
 Atlantic

ENGINEERING

Presentation by Dean Francis M. Dawson

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Charles William Blacher
 Edward LeRoy Higgins
 Willard Eugene Martin

Iowa City
 Marion
 Muscatine

Roger Frederick Mittelberg, Jr.
 Robert Farrell Mulvey
 Vernon Andrew Rose

Iowa City
 Albany, N. Y.
 Audubon

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Edwin Painter Benedict	Ferndale, Mich.	Harry William Nelson	Manchester
Frank Charles Buchwald	Ames	Arturo Salomon Obadia-Beracasa	
Maurice Harry Buresh	Lime Springs		Caracas, Venezuela
Paul Frederick Dunlap	Iowa City	Donald Deas Snyder	Collins
Rex Hayes Goff, Jr.	Iowa City		

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

John William Baum	Cedar Rapids	J. D. Miller	Fort Madison
Michael John Kovich	Davenport	Hans Storans	Nygaardsvik, Norway
Lindsay Leonard Lenhart	Evanston, Ill.	Donald William Thomas	Sioux City
Francis Mark Long	Iowa City	Edmund Joe Tillo	Sioux City
James Earl Madison	Correctionville	Jerrold Allan Wade	Iowa City

BACHELOR OF SCIENCE IN ENGINEERING

Donald LaVerne Roth	Davenport
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BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Frank Osbern Albertson	Iowa City	LaVerne Louis Miller	Dubuque
Donald Roger Baeder	La Crosse, Wis.	John Joseph Noonan	Dubuque
Edward Emmett Byrnes, Jr.	Marshalltown	Phillip John Oeth	Dubuque
Philip Keith Colvert	Oak Park, Ill.	Metsie Anthony Olesluk	South Hadley, Mass.
Jerold Oden Dock	Cedar Rapids	James Alfred Richmann	Marion
Stanley Bernard Etzen	Davenport	Marvin Frank Sedlacek	Fairfax
Gale Bennett Hansen	Audubon	Carl Setzer	South Amana
Paul Charles Hennig	Dubuque	Edward Lee Stachovic	Davenport
Richard Ellis Larew	Iowa City	Cyril William VonFumetti	Dubuque
Howard Osmer Leslie	Iowa City	Richard Clarence Young	Keokuk

GRADUATION HONORS IN ENGINEERING

With High Distinction

DONALD ROGER BAEDER, EDWIN PAINTER BENEDICT

With Distinction

FRANCIS MARK LONG, MARVIN FRANK SEDLACEK,
DONALD WILLIAM THOMAS

COMMERCE

Presentation by Dean Sidney G. Winter

BACHELOR OF SCIENCE IN COMMERCE

George Wallace Adamson	Des Moines	Glen Rowe Barto	Cedar Rapids
<i>General Business</i>		<i>General Business</i>	
Fredrick Webster Aistropc	Glenwood	Robert Charles Beals	Iowa City
<i>General Business</i>		<i>General Business</i>	
Virginia Larson Albertson	Sioux City	Barbara Ann Beller	Des Moines
<i>General Business</i>		<i>General Business</i>	
James Hallis Andreasen	Ringsted	Jerry Lee Blomberg	Fort Dodge
<i>General Business—Commerce and Law</i>		<i>Labor and Industrial Management</i>	
Charles Wayne Applagate	Jefferson	Robert Vance Blosser	Des Moines
<i>General Business</i>		<i>General Business</i>	
Roger Ray Bachtell	Waterloo	Gail Manuel Bohy	Albia
<i>Marketing</i>		<i>General Business</i>	
Milford Dean Bardsley	Sioux City	Jerry Lee Boulund	Muscatine
<i>General Business</i>		<i>General Business</i>	
Joseph Raymond Barmd	Manchester	Ned Carter Brand	Mason City
<i>General Business</i>		<i>General Business</i>	

David Herbert Braun <i>General Business</i>	Burlington	John Myrtue Hays <i>Marketing</i>	Iowa City
Duane Robert Brown <i>Accounting</i>	Albert City	Harold Dean Hayward <i>Accounting</i>	Independence
Derril Nelson Bunch <i>Marketing</i>	Laurens	Donald Elbert Heaton <i>General Business</i>	Council Bluffs
George Jerzy Burak <i>General Business</i>	Gdynia, Poland	Stanley Dean Hemmen <i>General Business</i>	Blairsburg
Dean Terrill Carlson <i>Accounting</i>	St. Ansgar	Edward Thomas Imhoff <i>General Business</i>	Lincolnwood, Ill.
Jack Henry Carstensen <i>General Business</i>	Clinton	Bobby Eugene Jenner <i>Marketing</i>	Wilton Junction
Dene Lowell Clark <i>Marketing</i>	Iowa City	Charles Keith Johnson <i>Marketing</i>	Cedar Rapids
Barbara Lee Cechran <i>Marketing</i>	Iowa City	Donald Curtis Kallenberg <i>General Business</i>	Des Moines
Joseph C. Code <i>General Business</i>	Mason City	Janice Clare Keeline <i>General Business</i>	Council Bluffs
L. Call Dickinson, Jr. <i>General Business</i>	Des Moines	William Neale Kelley <i>General Business</i>	Burlington
Barbara Jo Ditmars <i>General Business</i>	West Liberty	Willard Harold Kellogg <i>Office Management</i>	Charter Oak
Robert Edwin Dodds <i>General Business</i>	Des Moines	Edwin Alan Kelly <i>Marketing</i>	Iowa City
Richard Donald Doran <i>Marketing</i>	Iowa City	Richard Francis Kirke <i>General Business</i>	Des Moines
Theodore George Doscher <i>General Business</i>	West Union	Carolyn Higgins Koch <i>Office Management and Business Education</i>	Sioux City
Marilyn Jane Duckett <i>Office Management</i>	Manchester	William Lewis Krahrl <i>Accounting</i>	Grandview
John Thomas Duxbury <i>Marketing</i>	Cedar Rapids	Richard Harold Lewin <i>Marketing</i>	Sioux Falls, S. D.
Robert Paul Ebersole <i>General Business—Commerce and Law</i>	Fort Dodge	Melvin LeRoy Lewis <i>Marketing</i>	Burlington
Thomas William Ellison <i>General Business</i>	Des Moines	Allan Philip Liebling <i>Accounting</i>	St. Joseph, Mo.
Donald Neil Eyer <i>Accounting</i>	Belle Plaine	Richard Burton Lierle <i>Labor and Industrial Management</i>	Iowa City
Ervin George Fanny <i>Accounting</i>	Gilmore City	Richard Lee Lofton <i>Marketing</i>	Keokuk
William Bentley Foster <i>General Business</i>	Newton	Robert Edwin Lowery <i>Accounting</i>	Sanborn
Arnold Alfred Fredrick <i>Labor and Industrial Management</i>	Waverly	Marvin LeRoy Lyman <i>General Business</i>	Oakland
Donna Jean Furrer <i>Accounting</i>	Indianola	James Stanley Marcowis <i>Accounting</i>	Des Moines
James Fairman Gibbs <i>Accounting</i>	Des Plaines, Ill.	Robert Rockne Mau <i>General Business</i>	Charles City
Willie George Gibson <i>Economics</i>	Cedar Rapids	Orley Mearl McCune <i>Marketing</i>	Cedar Rapids
James Robert Giffillan <i>Marketing</i>	Independence, Wis.	Martin Aloysious McDevitt <i>General Business</i>	Winthrop
James Mark Gutfreund <i>Marketing</i>	Des Moines	Laurance Joseph Meyer <i>Accounting</i>	Davenport
Dennis Francis Harold <i>Marketing</i>	Mason City	Paul Burton Miller <i>Accounting</i>	Keosauqua
		Richard Elroy Miller <i>General Business</i>	Iowa City

Robert Harrison Molyneux <i>General Business</i>	Rolfe	Leo Gene Sels <i>Accounting</i>	Pella
Albert Alonzo Montgomery <i>General Business</i>	Stuart	James Stanley Sherman <i>General Business</i>	Sioux City
Gwendolyn Myra Moore <i>Office Management and Business Education</i>	Manly	Dean Edward Suddall <i>General Business</i>	Laurens
Theodore Henry Mueller <i>Economics</i>	Hampton	Harry John Sievers <i>Labor and Industrial Management</i>	Arlington, Va.
Wayne Arvid Nelson <i>Labor and Industrial Management</i>	Des Moines	Norman William Sivertsen <i>General Business</i>	Clinton
David Clement Neuhaus <i>General Business</i>	Fairfax	John Egan Skelley <i>General Business</i>	Des Moines
Dolores Margaret Neuzil <i>Office Management and Business Education</i>	Iowa City	Jerome Howard Slebiska <i>Labor and Industrial Management</i>	Grinnell
Wallace Frank Nicholson <i>General Business</i>	Des Moines	Mary Louise Burching Sloan <i>Office Management and Business Education</i>	Clarksville
Robert Eugene Nye <i>General Business</i>	Keokuk	Clarence Clyde Smith, Jr. <i>General Business</i>	Cedar Rapids
Eugene Allan Oathout <i>General Business</i>	Iowa City	Loy Delvin Smith <i>General Business</i>	Eldora
Jerry I. Padzensky <i>Marketing</i>	Cedar Rapids	Shirley Ann Smäh <i>Office Management and Business Education</i>	Whitten
Theodore Peter Patrou <i>General Business</i>	Webster City	Charles William Soderberg <i>Marketing</i>	Sioux City
Richard Allen Peterson <i>General Business</i>	Council Bluffs	Roger Vernon Spohn <i>General Business</i>	Cedar Rapids
LaMar Edward Popp <i>General Business</i>	Mason City	Harold Roy Stark <i>General Business</i>	Riceville
John Harvey Prevo <i>General Business</i>	Bloomfield	JoAnn Sweet <i>Accounting</i>	Des Moines
Elizabeth Jane Putnam <i>General Business</i>	Moline, Ill.	Richard Stephen Thompson <i>General Business</i>	Des Moines
Dale Joseph Razee <i>General Business</i>	Harlan	Charles Wesley Toland <i>General Business</i>	Dickens
Harold James Reister <i>General Business</i>	Sioux City	Clarence Lehard Truplit <i>Marketing</i>	Jefferson
John Henry Reusch <i>General Business</i>	Burlington	David VanGinkel <i>General Business</i>	Des Moines
Joseph John Ries <i>Marketing</i>	Iowa City	Mary Lou Viers <i>Office Management</i>	Davenport
Wilmer James Robison, Jr. <i>Marketing</i>	Cedar Rapids	George Walter Vieth <i>General Business</i>	Davenport
Donald Willis Rosche <i>Economics</i>	Bettendorf	Willis Albert Volkmer <i>General Business</i>	Washington, D. C.
Arthur Lavern Ross <i>Marketing</i>	Correctionville	Delbert John Wacker <i>Accounting</i>	Wilton Junction
Richard Coddington Rubin <i>Accounting</i>	Caldwell, N. J.	William Kendall Washburne <i>General Business</i>	Burlington
Guy Edwin Runyan <i>Accounting</i>	Des Moines	James Roger Weichman <i>General Business</i>	Cedar Rapids
John Arthur Ruttan <i>General Business</i>	Hawarden	Charles Wayne White <i>General Business</i>	Lamoni
Richard Edward Sandal <i>Labor and Industrial Management</i>	Fort Dodge	Marion Anthony Youngers <i>Accounting</i>	Sheldon
Dean Richard Sander <i>General Business</i>	West Liberty	*Dean David Zilmer <i>General Business</i>	Waterloo
Paul Henry Schwerin <i>General Business</i>	Flanagan, Ill.		

GRADUATION HONORS IN COMMERCE

With Highest Distinction

JOSEPH RAYMOND BARND, JOHN MYRTUE HAYS

With High Distinction

JAMES STANLEY MARCOVIS, ARTHUR LAVERN ROSS,
DEAN E. SIDCALL, MARY LOUISE SLOAN

With Distinction

VIRGINIA JANE ALBERTSON, DAVID HERRERT
BRAUN, ERVIN GEORGE FEANY, ALBERT ALONZO
MONTGOMERY, GUY EDWIN RUNYAN, DELBERT
JOHN WACKER

NURSING

Presentation by Dean Myrtle E. Kitchell

BACHELOR OF SCIENCE IN NURSING

Darlene Hannan Anderson
Gretchen Marie Johnson

Toeterville
Boone

Margaret Hahn Magnussen
Patricia Carlson Wachter

Dysart
Chicago, IL

CERTIFICATE OF GRADUATE NURSE

Melba Mae Caviness Moeller
San Francisco, Calif.

^aDegree conferred February 7, 1953.



MUSIC FOR COMMENCEMENT EXERCISES

UNIVERSITY CONCERT BAND

C. B. RIGHTER, *Director*

Prologue Concert

March — Men of Iowa	Van Doren
Overture — Martha	Flotow
Czardas	Monti
Nocturne, from <i>Midsummer Night's Dream</i>	Mendelssohn
Contra-Dance	Beethoven

Presentation of Colors and Entrance of Faculty Representatives

Fanfare	
March Processional	Marcelli

Entrance of Candidates

Hail, America!	Drumm
March Processional	Grundman
Gloriole	Noble
Festal March	Cadman

National Anthem (audience singing)

Conferring of Advanced Degrees

Doctor of Philosophy	
Master of Arts and Science	
Pomp and Circumstance, No. 1	Elgar

Conferring of Certificates and Degrees

Liberal Arts	
Crown of India	Elgar
March Theme	Rossi

Law

Law College March (tune: U. S. Field Artillery, Sousa)

Medicine

Postlude	Wiegand
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Dentistry

Recessional	Rousseau
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Pharmacy

March from <i>Il Cid</i>	Sacchini
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Engineering

Engineering College March (tune: When Johnny Comes Marching Home)

Commerce

Overture, from <i>Royal Fireworks Music</i>	Handel
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Nursing

Princess Tiptoe	LeRoy
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University Hymn—Oll Gold (audience singing)

Recessional Music

Gloriole	Noble
March Processional	Grundman

STATE UNIVERSITY OF IOWA
COMMENCEMENT BAND

Flute and Piccolo

Marion M. Anderson, Burlington
Clarann L. Bekman, Ida Grove
Beverly J. Bentzinger, Iowa City
Donald R. Gissel, Ft. Howard, Md.
Donna M. Harter, Emmetsburg
June C. Lyman, Cedar Rapids

Oboe

Jeanne E. Reichling, Maquoketa
Eleanor J. Seams, Williamsburg

Bassoon

Mary Anne Cassens, Rock Rapids
Vern H. Trowbridge, Burlington
Carol E. Ulvestad, Maquoketa

Clarinet

Roxie I. Beisner, Tripoli
James D. Corwin, Anamosa
Maurice W. Fahnney, Deep River
Susan A. Fischer, Burlington
Henrietta J. Foikens, Rock Rapids
Miriam R. Forbes, Iowa City
Marlene J. Gardner, Ft. Dodge
Nancy L. Gaston, Mt. Vernon
John P. Kassler, Marion
Ward W. Ruske, Fenton
Dorothy A. Schaefer, E. Moline, Ill.
Willard C. Snusad, Hendrum, Minn.
Willard A. Starkey, Iowa City

Alto Clarinet

Phyllis J. Fleming, Gamer

Bass Clarinet

Louis Newmark, Milwaukee, Wis.

Alto Saxophone

Bonnie L. Erickson, Sioux City
Donna J. Furrer, Indianola
Patsy A. McCraob, Iowa City

Tenor Saxophone

Mary Jane Mullins, Adel
Carolyn Troxel, Farmington, Ill.

Baritone Saxophone

Marjorie E. Johnson, Jefferson

Bass Saxophone

Max E. Probasco, Chariton

Cornet and Trumpet

Delmer E. Denker, Denison
William E. Kiedaisch, Keokuk
H. Wayne Ludvigson, Rock Rapids
M. Lee McClenahan, Sigourney
James V. McMahon, Irwin
R. David Missal, Lexington, Neb.
Richard A. Thomas, Sioux City
Clarence L. Triplitt, Jefferson
Loraine W. Ward, Jr., Oelwein

Horn

G. Galin Berrier, Grand Mound
James A. DeKalb, Davenport
Marvin M. McCoy, West Des Moines
Alfred R. Pipho, Cedar Falls
Cherlyn C. Roberts, Spencer
Wayne K. Wilkerson, West Liberty

Baritone

Richard R. Albrecht, Hartley
Donald W. Morrison, Oskaloosa
Donald G. Tweed, Ft. Madison

Trombone

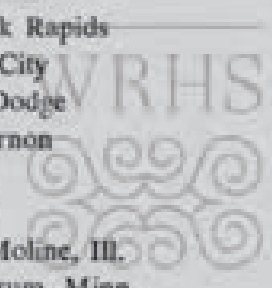
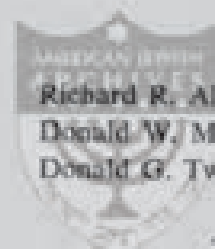
Donald R. Benda, Cedar Bluff
William F. Betterton, Knoxville
Delbert D. Black, Columbus Junction
John A. Rattan, Hawarden
Philip S. Ware, Iowa City

Bass

W. Dean Harwood, Hedrick
Louis J. Maher, Jr., Iowa City
Richmond A. Matteson, Rock Island, Ill.
Harry K. McCord, Toledo
Clarence M. Updagraff, Iowa City

Percussion

Robert L. Babl, Rock Rapids
Donald N. Eyler, Belle Plaine
J. Kenneth Miller, Ottumwa
Bette A. Phelps, West Branch
Robert J. Quinn, Marion



GUESTS AND OFFICIALS

Platform Officials

President Virgil M. Hancher; *Iowa State Board of Education*: Mrs. George Kyseth, Clarion, W. S. Rupe, Ames, Dwight G. Rider, Fort Dodge; President Emeritus Eugene Gilmore; Dean Allin W. Eakin, Administrative Dean; Dean Dewey B. Smit, College of Liberal Arts; Dean Walter F. Loehwing, Graduate College; Rabbi Abba Hillel Silver, The Temple, Cleveland; Dr. Williams D. Coder, Coordinator of Conferences; Professor M. Willard Lampe, Director, School of Religion; Dean Mason

Ladd, College of Law; Dr. Willis M. Fowler, College of Medicine; Dean William J. Simon, College of Dentistry; Dean Louis C. Zopf, College of Pharmacy; Dean Francis M. Dawson, College of Engineering; Dean Elmer T. Peterson, College of Education; Dean Sidney G. Winter, College of Commerce; Dean Myrtle Kitchell, College of Nursing; Colonel Walter E. Sewell, Head of Department of Military Science and Tactics; Colonel George A. Bosch, Head of Department of Air Science and Tactics.

FACULTY REPRESENTATIVES

College of Liberal Arts

Paul W. Brechler, Professor and Director, Division of Physical Education and Intercollegiate Athletics; Edward W. Chittenden, Professor of Mathematics; Bartholow Vincent Crawford, Professor of English; Margaret Gertrude Fox, Associate Professor, Department of Physical Education for Women; Earl E. Harper, Director and Professor, School of Fine Arts, and Director of Iowa Memorial Union; H. Clay Harshbarger, Professor of Speech, Assistant Dean for Advisory Services; Edward Charles Mable, Head, Department of Speech and Dramatic Art; Leslie G. Moeller, Director and Professor, School of Journalism; Robert M. Muir, Associate Professor of Botany; Harold W. Saunders, Chairman, Department of Sociology and Anthropology; Robert F. Thorne, Assistant Professor of Botany; James A. Van Allen, Head, Department of Physics; Vernon Van Dyke, Associate Professor of Political Science; Wayne Vasey, Director and Professor, School of Social Work; Himie Voxman, Professor of Music.

College of Commerce

Elmer W. Hills, Head, Department of General Business; William A. Knoke, Assistant Professor of Marketing; Karl E. Leib, Head, Department of Labor and Industrial Management, Acting Director, Bureau of Labor Management; William H. Martin, Assistant Professor of Economics; William J. Masson, Jr., Head, Department of Office Management and Business Education.

College of Dentistry

George S. Easton, Director of Infirmary; L. Bodine Higley, Head, Department of Orthodontics; Ray V. Smith, Head, Department of Prosthetics and Crown and Bridge Technics; Erling Thoen, Head, Department of Operative Dentistry and Dental Anatomy.

College of Education

Dan H. Cooper, Associate Professor; Albert N. Hieronymus, Associate Professor; John E. McAdam, Associate Professor, Director of University High School; Arthur H. Mochlman, Professor.

College of Engineering

Karl Kammermeyer, Professor and Head, Department of Chemical Engineering; Edward M. Lonsdale, Assistant Professor, Department of Electrical Engineering; Edward M. Mielnik, Assistant Professor, Department of Mechanical Engineering; Philip F. Morgan, Professor of Sanitary Engineering.

Graduate College

Gerald E. Elser, Head, Department of Classics; James F. Gilliam, Assistant Professor, Departments of History and Classics; Robert L. Hulbary, Associate Professor of Botany; Charles H. McCloy, Research Professor of Physical Education; John C. McGalliard, Professor of English; Paul E. Olson, Head, Department of Economics; M. Gladys Scott, Professor of Physical Education for Women; Ralph L. Shriner, Acting Head, Department of Chemistry.

College of Law

Charles W. Davidson, Assistant Professor; Frank R. Kennedy, Professor; Allan D. Vestal, Assistant Professor.

College of Medicine

William B. Bean, Head, Department of Internal Medicine; Harry M. Hines, Head, Department of Physiology; Walter R. Ingram, Head, Department of Anatomy; H. Dabney Kerr, Head, Department of Radiology; Robert T. Tidrick, Head, Department of Surgery; Emory D. Warner, Head, Department of Pathology.

College of Nursing

Ruth M. Lundt, Associate; Marie Neuschaefer,

Assistant Professor; Marion M. Schrum, Associate.

College of Pharmacy

James W. Jones, Professor; Wilber J. Teeters, Dean Emeritus; Robert L. Van Horne, Assistant Professor; Gail A. Wiese, Assistant Professor.

General University

J. Leonard Davies, Director, Correspondence Study; Robert L. Ebel, Director, Examinations and Testing Service; Ralph E. Ellsworth, Di-

rector, Libraries; L. Dale Faunce, Dean of Students; James R. Jordan, Head, Information Service; Bruce E. Mahan, Dean, Extension Division; Boyd R. McCandless, Director, Iowa Child Welfare Research Station; Ted H. McCarrrel, Director, Admissions and Registrar, Convocations, Veterans Service; Carl H. Menzer, Director, Radio Stations WSUI and KSUI; Frederick M. Pownall, Director, Publications; Robert F. Ray, Director, Institute of Public Affairs; Raymond R. Rembolt, Director, Hospital School for Severely Handicapped Children.

ACADEMIC COSTUME

The cap, gowns, and hoods universally worn by faculties and candidates for degrees at graduating exercises is a costume dating back to the twelfth century. In medieval days the scholars were clerics, the buildings were cold. Capes and hoods were required for warmth, and robes of scholars were similar to the cassocks of the clerics.

In the course of years of development, caps with tassels have replaced capes for the head covering, the hooded cape has been modified into the present hood, and the gowns with long flowing sleeves have been redesigned to indicate the character of the degree of the wearer. In 1893, a student movement in the United States endorsed academic apparel as overcoming awkwardness and difference in dress at graduating exercises and resulted in a standardization of academic costume in this country.

The Intercollegiate Code, adopted in 1895, recognizes three styles of gowns: a bachelor's gown, a master's gown, and doctor's gown. The differences in these gowns are mainly in the cut and shape of the sleeves and in the trimming. Hoods are also recognized for each of the above degrees and vary in shape, size, and length. The hood is not usually worn by candidates although practice has sanctioned the wearing of academic costume appropriate to the degree about to be conferred. The shell of the hood matches the black material of the gown, and is lined with the color or colors of the institution conferring the degree. The velvet bordering of the hood is of a color indicative of the field of learning to which the degree pertains. The color for each department of learning follows.

Arts and Letters	White
Theology and Divinity	Scarlet
Laws	Purple
Philosophy	Blue
Science	Golden Yellow
Medicine	Green
Pharmacy	Olive
Dentistry	Lilac
Veterinary Science	Gray
Fine Arts	Brown
Music	Pink
Library Science	Lemon
Pedagogy	Light Blue
Forestry	Russet
Commerce and Accountancy	Drab

Engineering
Physical Education
Humanics
Oratory
Public Health
Agriculture
Economics

Orange
Sage Green
Crimson
Silver Gray
Salmon
Maize
Copper

The Oxford cap, proper for all degrees, is worn both indoors and outdoors with academic costume. The tassel, worn over the left eye, is also symbolic of the degree to be conferred on the wearer and conforms to the code of colors for hood trimming. Holders of Doctor's degrees are entitled to wear a gold tassel.

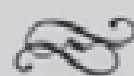
Candidates who have won graduation honors at the State University of Iowa are designated by a chevron worn on the left sleeve. The number of stars on the chevron is indicative of the honor and conforms to the designations on the program.



GENERAL PROGRAM



The Case Diamond Jubilee
Convocation



FRIDAY AND SATURDAY

April 10 and 11, 1953

Cleveland, Ohio

“The Atomic Age—
A Challenge to Free Men”

April 10 and 11, 1953



Case Institute of Technology
At Cleveland, Ohio

The Case Diamond Jubilee Convocation

*Opening the Celebration of the First Seventy-five Years of Service by
Case Institute of Technology to the Community and to the Nation*

WRHS

HERBERT HOOVER, former President of the United States
Honorary Chairman



CHARLES M. WHITE, President, Republic Steel Corporation
Chairman

FREDERICK C. CRAWFORD, Chairman of the Board, Thompson
Products, Inc.
Chairman of the Case National Advisory Committee

SAM W. EMERSON, President, The Sam W. Emerson Company
Chairman of the Case Board of Trustees

T. KEITH GLENNAN, President, Case Institute of Technology

Summary Program

Friday, April 10

9:45 a.m. PANEL ONE, Severance Hall, University Circle
"Lifting the Burdens from the Backs of Men"

12:15 p.m. CAMPUS TOURS

12:15 p.m. CASE BAND CONCERT, Tomlinson Hall Plaza
GEORGE F. STRICKLING, Directing

1:15 p.m. Reception of Guests by College Officers and
Representatives of Faculty, Tomlinson Hall

3:15 p.m. PANEL TWO, Severance Hall, University Circle
"Controlling the World's Energy for Man's Tasks"

8:30 p.m. EVENING PROGRAM, Public Auditorium

Saturday, April 11

9:45 a.m. PANEL THREE, Severance Hall, University Circle
"Effective Utilization of Controlled Energy by Organized
Society"

12:30 p.m. ALUMNI LUNCHEON, Rainbow Room, Hotel
Carter

(Alumni will be guests of the College)

Awarding of Case Citations

3:15 p.m. PANEL FOUR, Severance Hall, University Circle
"Attaining Man's Hopes in the Atomic Age"

8:30 p.m. EVENING PROGRAM, Public Auditorium

Panel One, Severance Hall

Friday, April 10, 9:45 a.m.

"Lifting the Burdens from the Backs of Men"

During the first 75 years of Case's existence, the world has gone through a great industrial revolution. In the first phases of this revolution enormous strides were made in substituting mechanical energy for human effort. This has been followed by a tremendous amplification of that energy. We now utilize so much mechanical energy that all the human beings on earth could not of their own effort supply it. Moreover, through man's ingenuity, this energy can be applied in such ways that many things which were impossible of accomplishment by the mere application of additional human energy can now be done. All of this has made it possible for man constantly to raise his standard of living. This panel will be concerned with the questions: What are the sources of energy now available or likely to be available to mankind? How best can they be applied to raise the standard of living throughout the world?

Presiding: DR. T. KEITH GLENNAN, *President, Case Institute of Technology*

Invocation: THE REVEREND HARRY B. TAYLOR, *The Church of the Covenant, Cleveland*

Welcome: CHARLES M. WHITE, *President, Republic Steel Corporation; Convocation Chairman*

Opening Remarks: GROVE H. PATTERSON, *Editor-in-Chief, The Toledo Blade*

Chairman: DR. ZAY JEFFRIES, *former Vice President, General Electric Company*

Speakers: DR. EGER VAUGHAN MURPHREE, *President, Standard Oil Development Company*

Topic: "Energy from Fuels"

DR. FARRINGTON DANIELS, *Professor of Chemistry, University of Wisconsin*

Topic: "Energy from the Sun"

DR. HARRY A. WINNE, *Vice President—Engineering, General Electric Company*

Topic: "Energy from the Atom"

Panel Two, Severance Hall

Friday, April 10, 3:15 p.m.

"Controlling the World's Energy for Man's Tasks"

Technology has unleashed new and tremendous sources of energy; it now offers man the possibility of controlling this energy through automatic devices. These new devices, reacting more sensitively and rapidly than man himself, offer great promise of future progress. The original stimulus for this movement was provided by the discovery of the electron. With this impetus, the industrial revolution, started more than a century ago, has had a rebirth. Now, automatic control is commonplace, and the day may not be far off when fully automatic factories will come into being. This panel will be concerned with the questions: What is happening in the field of automatic controls? What of their applications? How may automation affect the individual?

Presiding: DR. ELMER HUTCHISSON, *Dean of the Faculty and Director of the Research and Graduate Division, Case Institute of Technology*

Chairman: DR. T. E. SHEA, *Vice President and General Manager, Sandia Corporation, Albuquerque, New Mexico*

Speakers: DR. CLAUDE ELWOOD SHANNON, *Bell Telephone Laboratories*

Topic: "The Potentialities of Computers"

DR. LOUIS N. RIDENOUR, JR., *Vice President—Engineering, International Telemeter Corporation*

Topic: "Automatic Machines in Business and Industry"

DR. EARNEST A. HOOTON, *Professor of Anthropology, Harvard University*

Topic: "The Human Animal in the Machine Age"

General Assembly

Public Auditorium

Friday, April 10, 8:30 p.m.

Presiding: DR. T. KEITH GLENNAN

Chairman: THE HONORABLE GEORGE M. HUMPHREY, *Secretary
of the Treasury of the United States*

Speakers: THE RIGHT HONORABLE C. D. HOWE, *Minister of
Defense Production and of Trade and Commerce,
and Acting Prime Minister of Canada* at the
time of the Convocation

CLIFFORD E. HOOD, *President, U. S. Steel Corporation*

Panel Three, Severance Hall

Saturday, April 11, 9:45 a.m.

"Effective Utilization of Controlled Energy by Organized Society"

Through science and technology, vast amounts of controlled energy have become available to man. Society now needs new techniques to guide it in utilizing this energy intelligently. During the war, scientists developed a new approach to the use of quantitative information and analysis which permitted the more effective application of our available resources in naval and other military operations. Known as "Operations Research," this new philosophy of operational analysis is presently exciting interest in many peace-time fields of effort. It is possible that these new techniques may offer effective approaches to social problems and industrial activities, and may indeed profoundly affect our future educational curricula. The panel will discuss two questions: Has science anything to offer organized society for the solution of its problems? What are the responsibilities of industrial management and education in developing these techniques for the benefit of society?

Presiding: CLAY H. HOLLISTER, *Head*, Department of Engineering Administration, Case Institute of Technology

Chairman: COLONEL WILLARD T. CHEVALIER, *Executive Vice President*, McGraw-Hill Publishing Company

Speakers: SIR CHARLES FREDERICK GOODEVE, *Director*, British Iron and Steel Research Association, London

Topic: "Operations Research—A New Approach to Complex Social Problems"

GWILYM ALEXANDER PRICE, *President*, Westinghouse Electric Corporation

Topic: "The Changing Nature of Management's Responsibility in our Society"

DR. KARL TAYLOR COMPTON, *Chairman of the Corporation*, Massachusetts Institute of Technology

Topic: "Social Problems and the Role of Technological Education"

Alumni Luncheon, Hotel Carter

Saturday, April 11, 12:30 p.m.

Toastmaster: DR. RALPH M. HUNTER, *President*, Case Alumni Association

Speaker: DR. T. KEITH GLENNAN, *President*, Case Institute of Technology

Awarding of Case Citations

By Dr. T. Keith Glennan and Dr. Elmer Hutchisson

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***Deceased March 7, 1953.*

Panel Four, Severance Hall

Saturday, April 11, 3:15 p.m.

"Attaining Man's Hopes in the Atomic Age"

Every man cherishes hopes for the society in which he lives and in which his children will grow up. These hopes are menaced by fears about tomorrow—of war, of oppression, of loss of faith. Science as the servant of man ought to nourish his hopes and help to conquer his fears. This panel will discuss these questions: Have man's basic aspirations changed? What are man's chances for a full life in the Atomic Age?

Presiding: **DR. JASON J. NASSAU**, *Head, Department of Astronomy, Case Institute of Technology*

Chairman: **DR. GILBERT A. HIGHET**, *Professor of Latin, Columbia University*

Speakers: **RABBI ABBA HILLEL SILVER**, *The Temple, Cleveland*

Topic: "What Kind of Faith will Serve us Best?"

DR. DETLEV W. BRONK, *President, Johns Hopkins University*

Topic: "Individual Dignity and Human Toil"

DR. FILMER S. NORTHROP, *Sterling Professor of Philosophy and Law, Yale University*

Topic: "Science and World Peace"

General Assembly

Public Auditorium

Saturday, April 11, 8:30 p.m.

Music: CASE GLEE CLUB, George F. Strickling, Directing

Presiding: DR. T. KEITH GLENNAN

Chairman: CHARLES M. WHITE, *President*, Republic Steel Corporation

Speaker: THE HONORABLE HERBERT HOOVER, *former President* of the United States

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Closing Prayer: RABBI ABBA HILLEL SILVER

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 Orley E. Brown
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 William L. Bryan, Jr.
 D. Harvey Buchanan
 Henry Burlage, Jr.
 Fred Buskirk
 Donald M. Cameron
 Frank T. Carlton
 Lawrence C. Cerny
 Major Jack A. Chandler

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C. West Churchman
Robert A. Clark
Samuel K. Clark
John F. Cleary
Lloyd P. Coburn
Parker L. Coddington
Stuart P. Cooke
Charles W. Coppersmith
Gerald M. Cover
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Harold K. Crowder
Robert J. Crowl
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John F. Cuthbert
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William B. Daniels
John Darraugh
Stanton L. Davis
Alexander Delvigs
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A. B. Denison
Walter A. Deonik
Kenneth H. Donaldson
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Donald P. Eckman
Hugh B. Eggerding
Herbert B. Eisenberg
Colonel Laurence J. Ellert
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Edward B. Evans
Ewan W. Fletcher
John M. Flynn
Shiu-Ming Fok
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Park French
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Lee E. Gallaher
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Joseph Gaynor
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R. Green
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Richard W. Hoffman
Clay H. Hollister
James R. Hooper, Jr.
Capt. Paul Hoover
Paul L. Hoover
Michael A. Horlak
August A. Hruschka
Edward J. R. Hudac
Elmer Hutchisson
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Harold L. Johnson
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Harold B. Kendall
W. Griffin King
William J. Kissel
Paul G. Klann
Leo J. Klingler
Alfred Koestel
Melvin Kranzberg
Irvin M. Krieger
Gustav Kuerti
Harry R. Kyr
P. G. Lafyatis
Everett Laftala
John C. Lawrence
Arthur P. Leary
Irving Lefkowitz
Fred C. Leone
Arie E. Levy-Pascal
Andrew H. Loranger
Richard Li-Hsi Lou
William A. Lynam
Donald A. MacRae
George Mandel
Samuel H. Maron
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Wilbur R. Meredith
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J. Reid Shelton
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Francis J. Shortsleeve
Erwin F. Shrader
A. Edgar Shroyer
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A. W. Sisko
Selby M. Skinner
Robert R. Slaymaker
Capt. Mort G. Smith
Wayland P. Smith
Sophocles M. Sophocles

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William T. Wickham
Charles W. Williams

Charles H. Winner
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Herbert R. Young
Evelyn Zahig

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Henry B. Dates
Clarence L. Eddy
Charles D. Hodgman
Herbert Larke
Sven E. Swanbeck
Karl O. Thompson
Charles F. Thomas
Fred H. Vose

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Joseph Warren Barker
George Eric Barnes
Edwin Ormond Barstow
James Phinney Baxter III
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Charles Henry Benjamin
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Leonard Tibbetts Blaisdell
Charles Francis Brush
Oliver Ellsworth Buckley
George Kimball Burgess
George Van Trump Burgess
Edward Parker Burrell
William Russell Burwell
George Rafton Canning
Eckstein Case
Lee Milton Clegg
William Weber Coblentz
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Henry Baldwin Dates
Ray Putnam Dinsmore
Samuel Everett Doane
Otto D. Donnell
Herbert Henry Dow
William Kenneth Ebel
Joseph Wilton Ellms
Samuel William Emerson

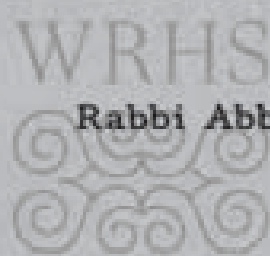
Harvey Fletcher
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Erwin N. Griswold
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Frederick Haynes Newell
James Thomas Pardee
Arthur La Rue Parker
Milton Baxter Punnet
Michael Idvorsky Pupin
Frank Adgate Quail
Albert Sauveur
Harry A. Schwartz
Max Y. Seaton
Edward Raymond Sharp
Timothy E. Shea
Joseph Slepian
Albert Kelvin Smith
Earle C. Smith
George Otis Smith
Philip W. Swain
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Lewis Lichtenstein Strauss
Charles John Strosacker
Cito Struve
Ambrose Swasey
Wesley Pope Sykes
John T. Tate
Hugh Stott Taylor
Merle A. Tuve
William Reed Veazey
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Fred Hale Vose
Worcester Reed Warner
Wilbur Jay Watson
Jean J. Weigle
Arthur V. Wilker
Arthur Cutts Willard
Clement Clarence Williams
Cyde E. Williams

CASE DIAMOND JUBILEE CONVOCATION

April 10 and 11, 1953

PREPARED FOR:



Rabbi Abba Hillel Silver



TO CONVOCATION PARTICIPANTS

The following outline of your Convocation appointments may be helpful as a brief summary of the information you have already received:

Friday, 6 p.m.	Faculty Reception and Buffet Dinner, Hotel Carter, Rainbow Room.
Saturday, 2:15 p.m.	Pre-panel conference and Panel Four, Severance Hall
Saturday, 6:15 p.m.	Formal Dinner, Hotel Carter, Rainbow Room. Places have been reserved for you and Mrs. Silver at the special awards table.
Saturday, 8:30	Public Hall, Stage Manager's Office--assembly of evening participants prior to program.

Should you desire to attend any of the other Convocation events, tickets have been enclosed in your registration kit for yourself and Mrs. Silver.

If for any reason, unforeseen developments in your personal plans make it impossible for you to meet these appointments as scheduled, please notify Mr. Frank Lybarger at the Convocation Office immediately in order to facilitate last-minute arrangements.

CASE CONVOCATION OFFICE
717 Superior Avenue, N. E.
Cleveland 14, Ohio
Telephone: MAin 1-7640

OF ASSISTANCE TO PANEL PARTICIPANTS

GENERAL INFORMATION:

Because of the very full schedule of the Convocation, it is important that each part of the program START AND STOP exactly as indicated. The Convocation Committee and your Panel Chairman will greatly appreciate your cooperation in following the schedule exactly as outlined on the next page.

All speakers are asked to speak clearly before the microphone and to be careful not to turn away from the microphone when asking or answering questions of other members of the panel.

TIMING:

The Chairman will begin the meeting on schedule whether or not the audience is completely assembled. One minute before the expiration of each speaker's time the Chairman will warn him either by stepping to the lecturn or by handing him a note. An additional thirty seconds grace will be allowed, at which time the Chairman will step beside the speaker to indicate that he is transgressing upon the time of the next speaker.

STAGE ARRANGEMENTS:

The Chairman will sit on the extreme right of the stage with speakers on his left in the order in which they participate.

PRELIMINARY MEETING:

This important meeting will be held one hour before the Panel Session to provide opportunity for the Chairman to discuss:

- (a) the order in which each person will speak
- (b) elimination of duplications and improvement of continuity
- (c) techniques which serve to improve the program

APRIL 11, 1953, PANEL FOUR, SEVERANCE HALL

Presiding Officer: Dr. Jason J. Nassau

Chairman: Dr. Gilbert A. Highet

Speakers and topics:

Rabbi Abba Hillel Silver -- What Kind of Faith Will
Serve us Best?

Dr. Detlev W. Bronk -- Individual Dignity and Human Toil

Dr. F. S. C. Northrop -- Science and a World at Peace

2:15 p.m. All Participants meet in Conference Room

3:05 p.m. Presiding Officer, Chairman, and Panel Speakers backstage

3:07 p.m. Lights set for program

3:10 p.m. Participants take places on stage--Presiding Officer at extreme right, Chairman Highet beside him, with Panel Speakers in the order that they are going to speak

3:15 p.m. Presiding Officer's introductory remarks--introduces Chairman Highet

3:18 p.m. Chairman's opening remarks--introduces subject of panel, "Attaining Man's Hopes In The Atomic Age" and the speakers

3:28 p.m. Chairman turns the discussion over to the first speaker

3:50 p.m. Chairman turns the discussion over to the second speaker

4:12 p.m. Chairman turns the discussion over to the third speaker

4:35 p.m. Chairman asks for discussion among the panel speakers

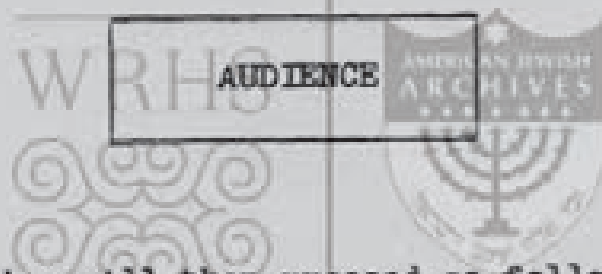
4:52 p.m. Chairman briefly summarizes the discussion

4:58 p.m. Presiding Officer closes the meeting

OF ASSISTANCE TO SPEAKERS AT THE SATURDAY
EVENING SESSION

Following the dinner at the Hotel Carter, speakers at the Saturday Evening Session will leave for the Music Hall by special cab. They will enter by the west stage-entrance, off the mall, and meet in the stage manager's office at 8:30 p.m. At 8:50, following the music program and exit of the Case Glee Club, they will move backstage and at 8:53, immediately after the curtain opens, will take their places on stage in accordance with the following chart:

GLENNAN	WHITE	HOOVER	CRAWFORD	EMERSON	SILVER
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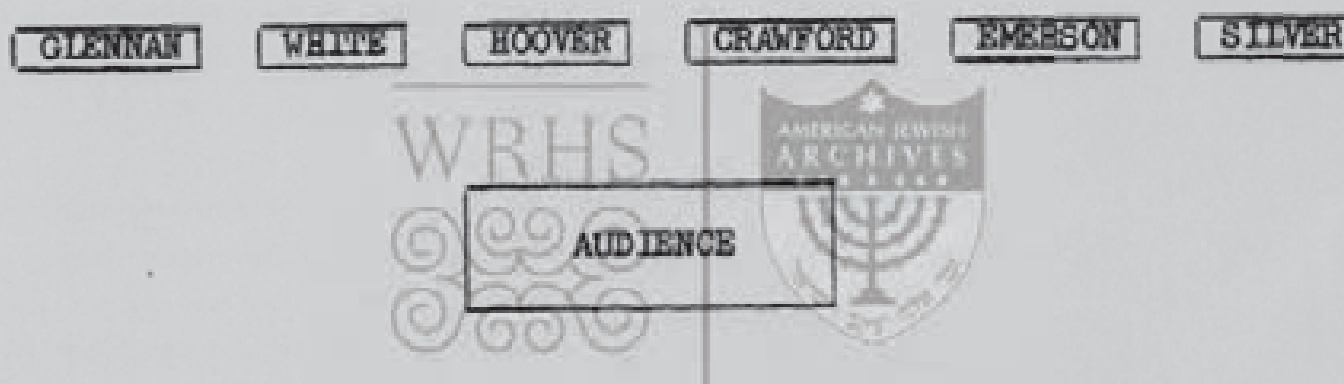


The Evening Session will then proceed as follows:

8:56 p.m.	Dr. Glennan will announce the telecast and broadcast. He will ask the audience to withhold applause until the end of Mr. Hoover's address.
9:00 p.m.	Statement by local announcers
9:00½ p.m.	Dr. Glennan introduces Chairman White
9:01½ p.m.	Mr. White introduces Mr. Hoover
9:03 p.m.	Mr. Hoover's address
9:29 p.m.	Chairman's closing remarks
9:30 p.m.	Dr. Glennan presents citation to Mr. Hoover -- Mr. Hoover's response
9:35 p.m.	Closing prayer -- Rabbi Silver
9:45 p.m.	Chairman adjourns Convocation

OF ASSISTANCE TO SPEAKERS AT THE SATURDAY
EVENING SESSION

Following the dinner at the Hotel Carter, speakers at the Saturday Evening Session will leave for the Music Hall by special cab. They will enter by the west stage-entrance, off the mall, and meet in the stage manager's office at 8:30 p.m. At 8:50, following the music program and exit of the Case Glee Club, they will move backstage and at 8:53, immediately after the curtain opens, will take their places on stage in accordance with the following chart:



The Evening Session will then proceed as follows:

- | | |
|------------|--|
| 8:56 p.m. | Dr. Glennan will announce the telecast and broadcast. He will ask the audience to withhold applause until the end of Mr. Hoover's address. |
| 9:00 p.m. | Statement by local announcers |
| 9:00½ p.m. | Dr. Glennan introduces Chairman White |
| 9:01½ p.m. | Mr. White introduces Mr. Hoover |
| 9:03 p.m. | Mr. Hoover's address |
| 9:29 p.m. | Chairman's closing remarks |
| 9:30 p.m. | Dr. Glennan presents citation to Mr. Hoover -- Mr. Hoover's response |
| 9:35 p.m. | Closing prayer -- Rabbi Silver |
| 9:45 p.m. | Chairman adjourns Convocation |



CASE DIAMOND JUBILEE

CONVOCATION

CASE INSTITUTE OF TECHNOLOGY

THE ATOMIC AGE—A Challenge to Free Men

World Leaders to Participate
in Two-Day Program
at Cleveland, April 10-11

Twenty-two distinguished participants at the Case Diamond Jubilee Convocation will present their opinions on what the future holds for mankind with the coming of atomic power, under the general theme: "The Atomic Age—A Challenge to Free Men."

During the first three-quarters of a century of Case's existence, a period in which enormous strides were made in substituting mechanical energy for human effort, Case men have made their contributions toward the technological progress of civilization.

The development of sources of energy is still continuing. With these new-found sources comes the challenge implied in President Eisenhower's inaugural declaration: "Science seems ready to confer upon us, as a final gift, the power to erase human life from this planet."

This sobering threat to civilization will be faced at the Case Diamond Jubilee Convocation by some of those who have had a part in creating it. The future existence of the human race is dependent on our ability to divert these new and immeasurable sources of power to the betterment and advancement of mankind rather than to its destruction. During the six panel sessions and two evening programs, some of the foremost leaders of our time will express their personal judgments on how we can meet the challenge of the Atomic Era.

The Convocation, under the auspices of Case Institute of Technology, will be one of the most important events of its kind ever held in Cleveland. Early reservations indicate capacity audiences at all events.



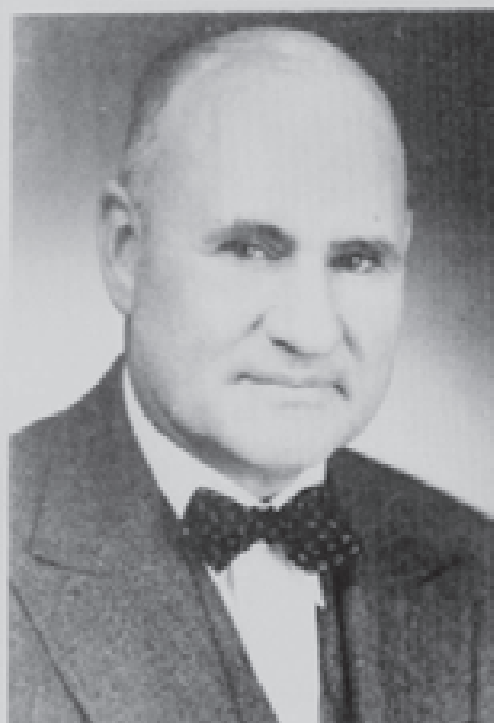
Photo by Fabian Backrach

Herbert Hoover, former President of the United States, Honorary Chairman of the Convocation, will speak on Saturday evening, April 10.



Grove H. Patterson, Editor-in-Chief of The Toledo Blade, to give opening address.

"Lifting the Burdens from the Backs of Men"



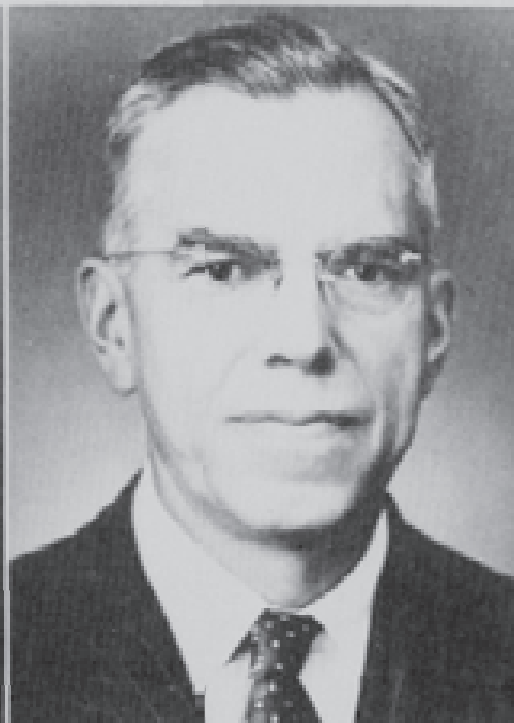
Zay Jeffries, Panel Chairman



Eger Vaughan Murphree
Photograph by Stetson



Farrington Daniels



Harry A. Winne

- **DR. ZAY JEFFRIES**, Pittsfield, Mass. Formerly Vice President, General Electric Company. Instructor, Case School of Applied Science, 1911-16; assistant professor, 1916-17. Director of Research, Aluminum Castings Company and its successor, Aluminum Manufacturers, Inc., 1916-20. Technical Director, Lamp Department, General Electric Company, 1936-45; Vice President, General Electric Company, 1945-49. President, Carboly Company, Inc., 1932-36. Vice Chairman, Minerals & Metals Advisory Board, National Academy of Sciences, 1951 to present. Member, Committee on Materials, Research and Development Board.
- **DR. EGER VAUGHAN MURPHREE**, New York City. President, Standard Oil Development Company. Chemical engineer, Solvay Process Co., 1924-26; Director, Chemical Engineering Division, 1926-30; Director, Standard Oil Company of La. and Manager, Development and Research Department, 1930-34. Vice President and Director, Hydrc Engineering & Chemical Co., 1934-45. Manager, Development and Research, Standard Oil Development Company of N. Y., 1934-37; Vice President, 1937-46; Executive Vice President, 1946-47; President and Director, 1947-. Member, Advisory Committee of the Atomic Energy Commission, 1950. President, Permanent Council of the World Petroleum Congress, 1951.
- **DR. FARRINGTON DANIELS**, Madison, Wis. Professor of chemistry, University of Wisconsin. Director, Metallurgical Laboratory, University of Chicago, 1945-46. Chairman, Board of Governors, Argonne National Laboratory, 1946-48. Consultant and investigator, National Defense Research Committee, 1941-44. Consultant, War Production Board, 1943-45. Author: "Mathematical Preparation for Physical Chemistry", "Outlines of Physical Chemistry", "Chemical Kinetics".
- **DR. HARRY A. WINNE**, Schenectady, N. Y. Vice President—Engineering, General Electric Company. With General Electric Company since 1910, beginning as student engineer, with Power and Mining Engineering Dept., 1916-30; head, steel mill section, Industrial Dept., 1930-36. Manager, steel mill and mining sales, 1936-37; Asst. to Vice President in Charge of Design Engineering for the Apparatus Department, 1941-45; Vice President in Charge of Engineering Policy since 1945. Appointed by Secretary of State to Board of Consultants for Committee on Atomic Energy, 1946. Scientific Manpower Advisory Committee, National Security Resources Board, 1950. Committee on Specialized Personnel, Office of Defense Mobilization, 1951.

"Controlling the World's Energy for Man's Tasks"

- **DR. VANNEVAR BUSH**, Washington, D.C. President of the Carnegie Institution of Washington, D.C. Chairman, National Defense Research Committee, 1940-41. Director, Office of Scientific Research and Development, 1941-47. Chairman, National Advisory Committee for Aeronautics, 1939-41. Chairman, Joint Research and Development Board of the War and Navy Departments, 1946-47. Chairman, Research and Development Board of the National Military Establishment, 1947-48. A central figure in development of nuclear fission, the network analyzer, and the differential analyzer. Author: "Endless Horizons", "Modern Arms and Free Men".
- **DR. CLAUDE ELWOOD SHANNON**, Murray Hill, N.J. Bell Telephone Laboratories. Bowles Fellow, M.I.T., 1939-40; assistant, electrical engineering and mathematics, M.I.T., 1936-39. National research fellow, Princeton, 1940. Research mathematician, National Defense Research Committee, 1940-41. Bell Telephone Laboratories, 1941-.
- **DR. LOUIS N. BIDENOUR, JR.**, Los Angeles. Vice President, Engineering, International Telemeter Corporation since 1951. Assistant professor, physics, University of Pennsylvania, 1938-41. Radiation Laboratory, Massachusetts Institute of Technology, 1941-46. Chief Radar Advisor, U.S. Air Forces in Europe, 1944. Expert consultant, Office of the Secretary of War, 1942-45. Professor, 1946-47; professor, physics, Dean Graduate College, University of Illinois, 1947-51. Chief Scientist, U. S. Air Force, 1950-51 (on leave from Ill.) Editor-in-Chief, Radiation Laboratory Series of 27 technical vols.; Editor, "Radar System Engineering," 1947.
- **DR. EARNEST A. HOOTON**, Cambridge, Mass. Professor of Anthropology, Harvard University. Instructor, Anthropology, Harvard, 1913; assistant professor, 1921; associate professor, 1927; professor since 1930. Assistant curator, somatology, Peabody Museum, 1913-14; curator since 1914. Author, "Ancient Inhabitants of the Canary Islands", "Up From the Ape", "Man's Poor Relations".

Vannevar Bush, Panel Chairman

Claude Elwood Shannon

Louis N. Bidenour, Jr.

Ernest A. Hooton



The Honorable Herbert Hoover ~ ~ ~ The Honorable The Right Honorable Clarence D. Howe ~ ~



Clarence Decatur Howe
Photo by National Film Board of Canada

- **THE RIGHT HONORABLE CLARENCE DECATUR HOWE**, Ottawa, Canada. Minister of Defense Production and of Trade and Commerce. Professor of civil engineering at Dalhousie University, Halifax, Nova Scotia. Chief engineer for the Board of Grain Commissioners, 1913-16. Formed own company of consulting engineers in 1916, the D. C. Howe and Company. Elected to House of Commons in 1935 and appointed Minister of Railways and Canals and Minister of Marine; Minister of Transport, 1936; Minister of Munitions and Supply, 1940; assumed additional responsibilities of Department of Reconstruction, 1944; Minister of Reconstruction and Supply, 1946; Minister of Trade and Commerce, 1948; also Minister of Defense Production, 1951. During World War II, Canadian representative on the Combined Production and Resources Board and member of the British Supply Council in North America with headquarters in Washington, D.C. Appointed member of the Imperial Privy Council, 1946.

Clifford F. Hood



- **CLIFFORD F. HOOD**: Pittsburgh, Pa. President, U. S. Steel Corporation. U. S. Army, 1917-19. With American Steel and Wire Company, 1919-50. Vice President in Charge of Operations, 1935-37; Executive Vice President, 1937-38; President, 1938-50. Member, American Iron and Steel Institute.

*Invited by Honorable George M. Humphrey
Clifford F. Hood ~ ~ ~ Charles M. White*



George M. Humphrey

- **GEORGE M. HUMPHREY**, Washington, D.C. Secretary of the Treasury. General attorney, M. A. Hanna Company, 1918; President, 1929-53. At time of appointment to President Eisenhower's cabinet was Chairman, Executive Committee, National Steel Corporation; Chairman of the Board, Susquehanna Anthracite Company and Pittsburgh Consolidation Coal Company; member Executive Committee, National City Bank of Cleveland; Director, Phelps Dodge Corporation; Chairman of Executive Committee and Director, Industrial Rayon Corporation.



*Charles M. White
Chairman of the Convocation*

- **CHARLES M. WHITE**, Cleveland, Ohio. President, Republic Steel Corporation. Jones & Laughlin Steel Company, 1913-29. Assistant Vice President, Republic Steel Corporation, 1930-35; Vice President in Charge of Operations, 1935-45; President, 1945-. Director, Fretz-Moon Tube Company, American Iron and Steel Institute. Awarded American Iron and Steel Institute Medal, 1937. Trustee, National Industrial Conference Board.



"Effective Utilization of Controlled Energy by Organized Society"



Willard T. Chevalier,
Panel Chairman



Charles Frederick Goodeve



Gwilym Alexander Peice
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Karl T. Compton
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- **COL. WILLARD T. CHEVALIER**, New York City. Executive Vice President, McGraw-Hill Publishing Company. Formerly Business Manager and Publisher of "Engineering News-Record" and Publisher of "Construction Methods", "Coal Age", "Engineering and Mining Journal", and "Business Week". Anglo-American Council on Productivity, 1948-52. Director, Associated Business Publications, 1948-51. Trustee, U. S. Council of the International Chamber of Commerce; Director, American Standards Association; member, National Industrial Conference Board.
- **SIR CHARLES FREDERICK GOODEVE**, London, England. Director, British Iron & Steel Research Association. Formerly assistant lecturer, University of Manitoba; lecturer in physical chemistry, University College, London. Deputy Director, Department of Miscellaneous Weapon Development, 1940; assistant and later Deputy Controller for Research and Development, Admiralty, 1942-45. Numerous publications in scientific journals.
- **GWILYM ALEXANDER PEICE**, Pittsburgh, Pa. President, Westinghouse Electric Corporation. Admitted to Pa. bar, 1917; practiced in Pittsburgh, 1919-20. Assistant trust officer, Pittsburgh Trust Co., 1920-22. Practiced law, 1922-23. Trust officer, Peoples Savings & Trust Co., 1923-30; Vice President, Peoples Pittsburgh Trust Co., formerly Peoples Savings & Trust Co., 1930-40; President and Dir., 1940-43. Vice President, Westinghouse Electric Corp., 1943; Executive Vice President, 1945; President, 1946. Member, National Industrial Conference Board; Business Advisory Council for U. S. Department of Commerce.
- **DR. KARL TAYLOR COMPTON**, Cambridge, Mass. Chairman of the Corporation, Massachusetts Institute of Technology. Assistant professor to professor and chairman of the Department of Physics, Princeton University, 1915-1930. President, Massachusetts Institute of Technology, 1930-48. Chairman, Joint Chiefs of Staff Evaluation Board on Atomic Bomb Tests, 1946; President's Advisory Commission on Universal Training, 1946-47; Research Board for National Security, 1945-46; U. S. Radar Commission to the United Kingdom, 1943; Research and Development Board, 1948-49. Special representative of the Secretary of War in Southwest Pacific Area, 1943-44. Director, John Hancock Mutual Life Insurance Co., McGraw-Hill Publishing Co., Tracerlab, Inc., High Voltage Engineering Corp., Federal Reserve Bank of Boston, General Motors Corp., General Foods Corp. Author of approximately 100 publications in the field of physics.

"Attaining Man's Hopes in the Atomic Age"

- **DR. GILBERT A. HIGHET**, New York City. Anthon Professor of Latin, Columbia University. Lecturer in Classics, St. Joan's College, Oxford, 1932-38; visiting associate in classics, Columbia University, 1937-38; professor of Greek and Latin since 1938. Appointed Anthon Professor of Latin, 1950. On leave for war service, 1941-46; British mission in U. S. and Canada 1941-43; British Army, 1943-46; military govt. of Germany, 1945-46. Author, "An Outline of Homer", "Beginning Latin", "The Classical Tradition", "The Art of Teaching". Chief book critic for Harper's Magazine since 1952.
- **DR. ABBA HILLEL SILVER**, Cleveland, Ohio. Rabbi, The Temple, Cleveland, since 1917. Rabbi, Wheeling, 1915-17. Actively identified with many social movements of our day. Early champion of the rights of organized labor and one of the first advocates in the U. S. of unemployment insurance. Chairman of the American Section of the Jewish Agency for Israel. Chairman, American Zionist Emergency Council. President, Zionist Organization of America. Author, "Religion in a Changing World", "World Crisis and Jewish Survival", "Vision and Victory".
- **DR. DETLEV WULF BRONK**, Baltimore, Md. President, Johns Hopkins University. Professor of biophysics and Director of Eldridge Reeves Johnson Foundation for Medical Physics, University of Pennsylvania, 1929-49. Coordinator of Research, Air Surgeon's Office, Army Air Forces, 1942-46. Chief, Division of Aviation Medicine, Committee on Medical Research of the Office of Scientific Research and Development, 1944-47. Chairman, National Research Council. President, National Academy of Sciences.
- **DR. FILMER S. NORTHROP**, New Haven, Conn. Sterling Professor of Philosophy and Law, Yale University, since 1947. Social work in New York, 1915-17; U. S. Army, 1918-19; Educ. Sec., International Com., YMCA, Hong Kong, 1919-20. Instructor, philosophy, Yale, 1923-26; assistant professor, 1926-29; associate professor, 1929-32; professor, philosophy, 1932-47. President, American Philosophical Society, 1952. Author, "The Meeting of East and West", "The Logic of the Sciences and Humanities", "The Taming of the Nations".

Gilbert A. Highet, Panel Chairman

Abba Hillel Silver

Detlev W. Bronk

Filmer S. Northrop



Photo by Elliott Erwitt



Photo by Anthony Weiss



Photo by Yale News—Alburtus

Program—Condensed

FRIDAY, APRIL 10, 1953

PANEL ONE—"Lifting the Burdens from the Backs of Men"

9:45 a.m. to 12 noon Severance Hall, University Circle

Presiding: DR. T. KEITH GLENNAN, *President, Case Institute of Technology.*

Welcome: CHARLES M. WHITE, *President, Republic Steel Corporation*

Opening Remarks: GROVE H. PATTERSON, *Editor-in-Chief, The Toledo Blade*

Chairman: DR. ZAY JEFFRIES, *former Vice President of General Electric Co.*

Speakers: DR. EGER VAUGHAN MURPHY, *President, Standard Oil Development Company*

Topic: "Energy From Fuels"

DR. FAHRINGTON DANIELS, *Professor of Chemistry, University of Wisconsin*

Topic: "Energy From The Sun"

DR. HARRY A. WINSE, *Vice President—Engineering, General Electric Company*

Topic: "Energy From The Atom"

CASE CAMPUS TOURS 12:15 to 2:30 p.m.

PANEL TWO—"Controlling the World's Energy for Man's Tasks"

3:15 to 5 p.m. Severance Hall, University Circle

Presiding: DR. ELMER HUTCHINSON, *Dean of Faculty, Case Institute of Technology*

Chairman: DR. VANNEVAR BUSH, *President, Carnegie Institution of Washington, D. C.*

Speakers: DR. CLAUDE ELWOOD SHANNON, *Bell Telephone Laboratories*

Topic: "The Potentialities of Computers"

DR. LOUIS N. RIDENOUR, JR., *Vice President—Engineering, International Telemeter Corporation*

Topic: "Automatic Machines in Business and Industry"

DR. ERNEST A. HOOTON, *Professor of Anthropology, Harvard University*

Topic: "The Human Animal in the Machine Age"

EVENING SESSION

8:30 to 10:30 p.m. Municipal Auditorium, Cleveland

Chairman: THE HONORABLE GEORGE M. HUMPHRIES, *Secretary of the Treasury of the United States*

Speakers: THE RIGHT HONORABLE CLARENCE DECATUR HOWE, *Minister of Defense Production and of Trade and Commerce, Canada*

CLIFFORD F. HOOD, *President, U. S. Steel Corporation*

Frederick C. Crawford, *President, Thompson Products, Inc.; Chairman, Case National Advisory Committee*



T. Keith Glennan, *President, Case Institute of Technology; former member of the Atomic Energy Commission*

SATURDAY, APRIL 11, 1953

PANEL THREE—"Effective Utilization of Controlled Energy by Organized Society"

9:45 to 11:45 a.m. Severance Hall, University Circle

Presiding: DR. GUY H. HOLLISTER, *Head, Department of Engineering Administration, Case Institute of Technology*

Chairman: CORNELIUS WILLARD T. CHEVALIER, *Executive Vice President, McGraw-Hill Publishing Company*

Speakers: SIR CHARLES FREDERICK GORDON, *Director, British Iron and Steel Research Association, London, England*

Topic: "Operations Research—A New Approach to Complex Social Problems"

GUYAN ALEXANDER PRICE, *President, Westinghouse Electric Corporation*

Topic: "The Changing Nature of Management's Responsibility in our Society"

DR. KARL TAYLOR COMPTON, *Chairman of the Corporation, Massachusetts Institute of Technology*

Topic: "Social Problems and the Role of Technological Education"

ALUMNI LUNCHEON— DR. RALPH M. HUNTER, *President, Case Alumni Association, Toastmaster*

12:30 to 2:30 p.m. Hotel Carter, Cleveland

Awarding of Case Citations

PANEL FOUR—"Attaining Man's Hopes in the Atomic Age"

3:15 to 5 p.m. Severance Hall, University Circle

Presiding: DR. JACOB J. NASSAU, *Head, Department of Astronomy, Case Institute of Technology*

Chairman: DR. GILBERT A. HIGHET, *Professor of Latin, Columbia University*

Speakers: RABBI ABRAHAM HILLEL SILVER, *The Temple, Cleveland*

Topic: "What Kind of Faith Will Serve Us Best?"

DR. DETLEV W. BRONK, *President, Johns Hopkins University*

Topic: "Individual Dignity and Human Toil"

DR. FILMER S. NORTON, *Sterling Professor of Philosophy and Law, Yale University*

Topic: "Individual Dignity and Human Toil"

EVENING SESSION

8:30 to 10:30 p.m. Municipal Auditorium, Cleveland

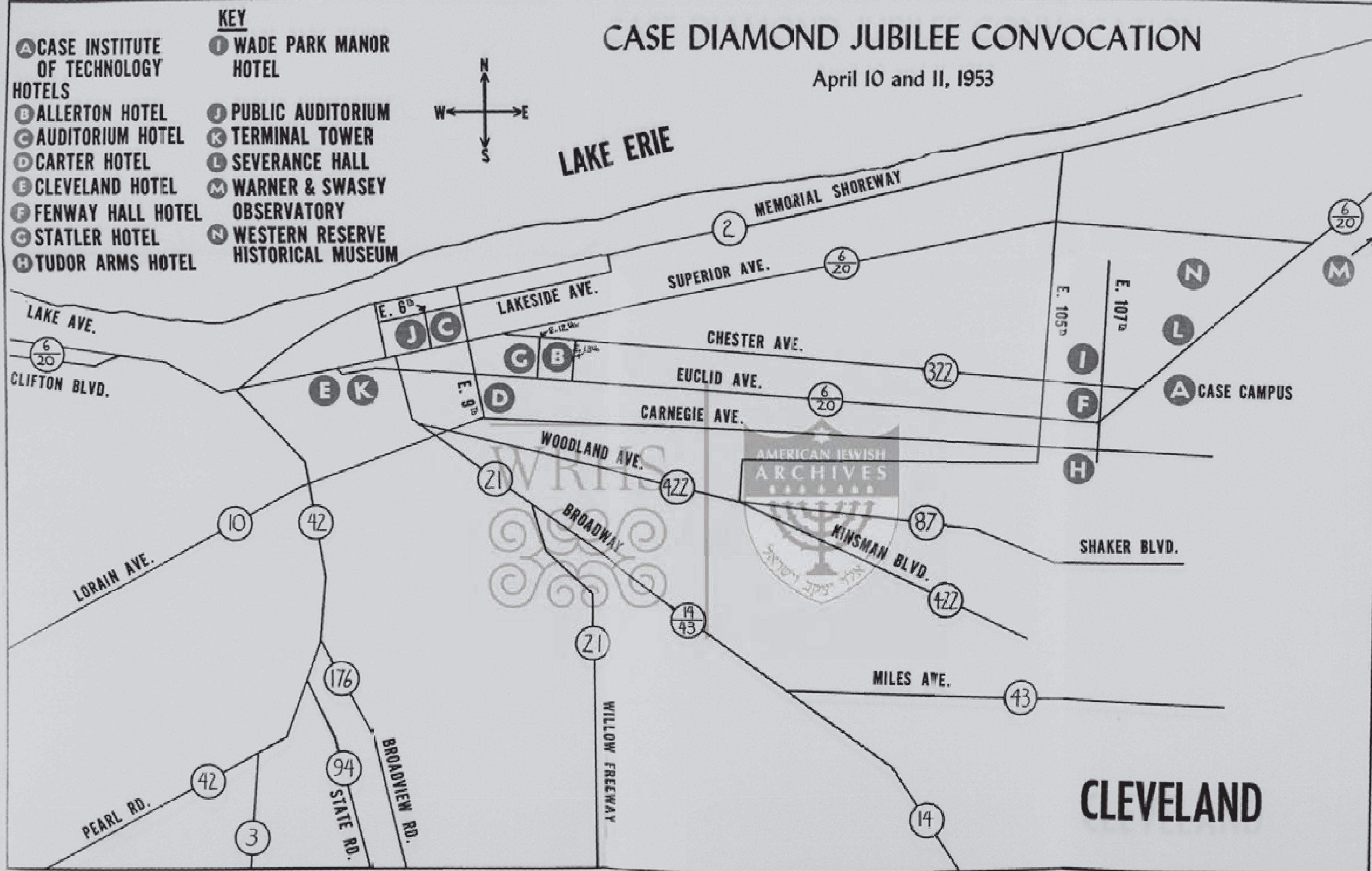
Chairman: CHARLES M. WHITE, *President, Republic Steel Corporation*

Speaker: HERBERT HOVER, *former President of the United States*



CASE DIAMOND JUBILEE CONVOCATION

April 10 and 11, 1953



A. CASE CAMPUS

Friday, April 10 12:15 p.m.
Campus Tours

D. CARTER HOTEL

Saturday, April 11 12:30 p.m.
Alumni Luncheon
Awarding of Citations

J. PUBLIC AUDITORIUM

Friday, April 10 8:30 p.m.
The Honorable George M. Humphrey, Chairman
Speakers: The Right Honourable C. D. Howe
Clifford F. Hood

Saturday, April 11 8:30 p.m.
Charles M. White, Chairman
Speaker: The Honorable Herbert Hoover

L. SEVERANCE HALL

Friday, April 10
Panel One—9:45 a.m. "Lifting the Burdens
from the Backs of Men"
Panel Two—3:15 p.m. "Controlling the World's
Energy For Man's Tasks"

L. SEVERANCE HALL — continued

Saturday, April 11
Panel Three—9:45 a.m. "Effective Utilization
of Controlled Energy by Organized Society"
Panel Four—3:15 p.m. "Attaining Man's Hopes
in the Atomic Age"