

- +How many of you can think back to your days as a
 - +student in your first college chemistry courses...
 - +Can anyone tell me the element which comes after Gold...
 - +...anyone...anyone...
- +Introduction
 - +Notre Dame
- +Governor Introduction
 - +Honored guests, ladies and gentlemen
 - +I am very pleased to tell you that
 - +we have a special guest with us today.
 - +I refer of course to our Governor, James Blanchard,
 - +who has made a special effort to join us
 - +despite a very full calendar.
 - +It is particularly appropriate that Governor Blanchard
 - +is able to be with us today since it has been
 - +his vision for the future of our State that has
 - +helped make this building possible.
 - +Indeed, this magnificent laboratory for chemical sciences stands
 - +as a symbol of the extraordinary progress our
 - +State has made under the strong leadership of Governor Blanchard
 - +The Governor foresaw that the future prosperity of Michigan
 - +required creative cooperation between, research,
 - +education, business, private philanthropy,
 - +the State and private sector to create
 - +a new economic foundation for Michigan
 - +as we develop from an industrial to knowledge based society.
 - +I should note that my first opportunity to appreciate this
 - +vision and his strong leadership occurred within
 - +days after he took office when he rapidly formed a
 - +team to attempt to attract the Microelectronics
 - +and Computer Corporation to Michigan.
 - +in this particular effort,
 - +Although we lost this particular one to a powerful Texas lobby,
 - +we learned a great deal in the process.
 - +lobby, since that time higher education, state government, and industry
 - +And since that time, Governor Blanchard has led an
 - +effort in which higher education, state government, and industry
 - +have come together as a powerful team to build the knowledge
 - +infrastructure necessary to secure the prosperity and well-being
 - +of our State.
 - +Through innovative programs such as the REF
 - +the formation of catalytic research institutes such as MBI and ITI,
 - +strong investments in higher education as evidenced by this building,
 - +and the strong, visionary, and courageous leadership of Governor Blanchard
 - +Michigan has compiled a list of achievements
 - +which is now the envy of the nation.

- +Ann Arbor alone we now have:
 - +i) NCMS
 - +ii) NASA Center for Space Commercialization
 - +iii) Two major federal centers of excellence,
 - +one in high speed electronics and another
 - +in ship propulsion and hydrodynamics
 - +iv) MRC Center for electronics manufacturing
 - +v) the Hughes Research Institute
 - +v) And, of course, NSFnet,
 - +which last week was identified as the backbone
 - +of a new interstate highway system of information exchange
 - +to be built by the federal government
 - +with the potential of attracting 100s of M
 - +to Michigan.
 - +vi) and other activities too numerous to mention.
- +And the impact on our state has been profound.
 - +Indeed, the State Department of Commerce
 - +has estimated that the University's programs
 - +in computers, electronics, and robotics
 - +alone have already stimulated the growth of
 - +a \$5 B industry in industrial automation
 - +in the Detroit-Ann Arbor corridor...with
 - +hundreds of new companies,
 - +and thousands of new jobs.
- +Today, other states are coming to Lansing and Ann Arbor
 - +to learn from the Michigan experience...
 - +to copy the Michigan model!
- +The renewed investment in higher education of recent years
 - +which has been the key to these achievements
 - +has taken extraordinary vision, courage, and determination
 - +
 - +
 - +with many other competing demands and pressures.
- +It has also taken new commitments from the private sector,
 - +from Michigan industry, its foundations, and private citizens.
- +
- +yet another step in this remarkable partnership
 - +between state government, higher education, and
 - +the private sector that is restoring Michigan to the
 - +a position of economic leadership in Ymerica.
- +
- +The state has assembled its tremendous assets and it's people
 - +into a winning team involving state government, Michigan's
 - +colleges and universities, business, labor, and industry.
- +Governor Blanchard, we thank you for participating in
 - +this important event...and but even more significantly,

- +we join with the citizens of Michigan in
- +thanking for your leadership of our state...which has made
- +Michigan a model for the nation as we face together
- +the advent of an exciting new competitive age,
- +the age of knowledge in a global economy.
- +and students--we thank you for all of your efforts...
- +Let me now introduce Governor Blanchard
- +to you to make a few remarks.
- +GOVERNOR BLANCHARD
- +Chemistry Dedication
- +Acknowledgements
 - +Governor Blanchard, Regents of the University, Regents Emeriti,
 - +Presidents Emeriti, Special Friends and members of the University family.,
 - +I am delighted you could be with us
 - +for this truly splendid moment for our University.
 - +It is a milestone for all the reasons that
 - +the several speakers have already noted in terms of
 - +the contribution the building will make to our teaching and learning.
 - +But it is also a milestone in forging a new partnership
 - +between the people and leaders of the State of Michigan,
 - +the Corporate and philanthropic community,
 - +and the University and its devoted friends and supporters.
 - +Let me explain...
- +Age of Knowledge
 - +As many of you know, I am a scientist by
 - +training and background...indeed, I
 - +am perhaps the worst of all types of
 - +scientists...a burned-out theoretical physicist.
 - +I must also confess I tend to be one of those
 - +people who lives more in the future than in
 - +the present or the past...
 - +And as I look to the future, I have sensed the ever
 - +accelerating pace of change in our society,
 - +our nation, the world.
 - +But there are even more profound changes underway...
 - +Looking back over history, one can identify certain
 - +abrupt changes, discontinuities, in the nature,
 - +the very fabric of our civilization...
 - +The Renaissance, the Age
 - +of Discovery, the Industrial Revolution
 - +There are many who contend that our society is
 - +once again undergoing such a dramatic shift in
 - +fundamental perspective and structure.
 - +Today we are evolving rapidly to a new post-industrial,
 - +knowledge-based society, just as a century ago our
 - +agrarian society evolved through the Industrial Revolution.

- +In a sense, we are entering a new age, an age of knowledge,
 - +in which the key strategic resource necessary for our
 - +prosperity, security, and social well-being has become
 - +knowledge--educated people and their ideas.
- +In a very real sense, today we are entering a new age...
 - +what as been termed "an age of knowledge",
 - +in which the key strategic resource will become
 - +educated people and their ideas.
- +Key element in transformation, is the emergence of knowledge
 - +as the new critical commodity, as important as mineral ores,
 - +timber, and access to low skilled labor were at an earlier time.
- +This new critical commodity knows no boundaries.
 - +It is generated and shared w
 - +
 - +it spreads very quickly.
- +
- +and at a very rapid rate.
- +
- +widely understood in developed nations who have been sharply
 - +incr`asing their investments in science and technolgy.
- +From this perspective, it seems clear that investments
 - +such as this laboratory--and more generally in our people
 - +through in education--will become the key to the future
 - +strength and prosperity of our state...
 - +...just as it will be for our nation.
- +Previous economic transformations were closely associated
 - +with major public investment in infrastru
 - +
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- +The State of Michigan Response
 - +How does a state such as Michigan respond to this
 - +challenge...to an age of knowledge in an intensely
 - +competitive global economy?
 - +Governor Blanchard, along with many other leaders from
 - +both the public and private sector, have recognized
 - +that as we look to the knowledge-intensive future of Michigan,
 - +it will be our great research universities,
 - +our principal sources of knowledge and
 - +the educated people who can apply it,
 - +that will hold the key to our collective prosperity.
 - +Further, they have recognized that success will depend upon
 - +building unique partnerships...
 - +...a Michigan team, if you will...
 - +In this partnership
 - +Universities must commit themselves to:

- +Strategically realigning activities into key thrust areas
 - +of major importance to State...
- +Attracting leading scientists, engineers, and professionals
 - +to staff these programs...
- +Developing new mechanisms for technology transfer...
- +State government must commit itself to:
 - +Establishing higher education in general!nd the state's
 - +research universities as a high priority
 - +Providing seed resources to sustain key thrust areas
 - +Developing level institutions to act as catalysts in these activities
- +The University must view itself as a partner with state
 - +government, business, industry, and labor in addressing
 - +the needs of the State of Michigan.
- +Service for New Age
 - +Of course, this strong coupling between the University and
 - +the society it serves is nothing new...
 - +Historically, the unique contribution of American public higher education
 - +
 - +the traditional mission of teaching and research.
 - +This service mission is central to our identity,
 - +our academic excellence and to our roots deep in the State of Michigan.
 - +It links us to the eight generations of Michigan citizens
 - +who have sacrificed to build this University into
 - +one of the world's great centers of learning.
 - +Of course the definitions of our mission and service have changed
 - +over the years as our society has changed..
 - +i) first as Michigan expanded to the frontier
 - +ii) then as it evolved through the industrial revolution
 - +to become the manufacturing center of the world
 - +iii) and now, once again, as it evolves once again into
 - +a knowledge-intensive society
 - +Hence as a university we are challenged
 - +once again to reinterpret and redefine
 - +our institution over the next decade
 - +to serve the people of the 21st century
 - +a time whose possibilities and challenges
 - +we can only dimly imagine.
 - +In a sense, during the next decade we face the challenge
 - +and the opportunity to re-invent the university to
 - +educate the citizens and serve the society of
 - +the 21st Century.
 - +At the University of Michigan we have never been
 - +aloof from the people we serve.
 - +These past few years have taught us,
 - +and the challenges of our future demand(of us,
 - +that we reach out even ore to work with other institutions

- +in government, corporations, schools, small business,
- +agriculture, in cities and towns to help solve our problems together.
- +More than ever before it is clear that we share a common fate
- +and must work even more closely together
- +to achieve our common aspirations.
- +It is in that spirit of deepening partnership
- +that we have worked with the leadership of the state, in government
- +and the private sector to address the issue
- +of creating a better future for Michigan.
- +It is with this vision of our responsibilities to the future
- +that the leaders of the University made a commitment
- +to give a priority to building the basic sciences at the University
- +and began planning for this magnificent Chemistry building.
- +And it was this vision and understanding that moved
- +the Governor and State Legislators, Michigan industry, its foundations,
- +and all of us will appreciate and benefit from
- +as will the students and scholars who follow after us.
- +For me it will symbolize what can be accomplished
- +not just here in Michigan but all across America
- +when our universities join with government,
- +and business, with schools and other institutions,
- +and the public to achieve great public purposes.
- +We thank all of those whose faith and support
- +have created this building for Science.
- +It will help us play our part in preparing
- +to meet the challenges and opportunities
- +that lie ahead in the new century.
- +Final Comments
- +Those of us who are scientists tend to associate the names
- +of places with the great intellectual achievements of our
- +disciplines...
- +Examples:
- +Cavendish Laboratories of Cambridge
- +Los Alamos Laboratory
- +
 - +great scientific achievements occurring in this
 - +building...
 - +and note that the Dow Laboratories...
 - +were the birthplace of many of the great discoveries
 - +in 21st Century Chemistry.
- +Congratulations, ...thanks...
- +Oh, yes. I almost forgot...
- +Today we have been talking about the winning Michigan team
- +built by Governor Blanchard.
- +But there is another Michigan team that is very
- +much on our mind these days...

+...and that is the one build by General Bo!
+Hence, perhaps one last comment is appropriate:
+...Go Blue!!! (and beat Notre Dame)