A Knight Ridder Newspaper

must invest more in innovation

serious threats to America's leading position. innovative technology. We are still OR MOST OF THE 20th century ery and innovation, but there are global leaders in scientific discovthe United States led the world in

vestment in science and engineering educaneering. But we are falling behind much of tion and industrial development of high-tech tions with rapidly growing economies and inthe rest of the world, particularly Asian naon maintaining our lead in science and engifuture and even our national security depend More now than ever before, our economic

countries where there is an increasing government support for innovative technology. number of graduates return to their native ment in U.S. graduate schools. An increasing half of the science and engineering enroll-Foreign students now make up more than

of U.S. graduate school students. as they constitute an increasing percentage are being educated in their homeland, even In several Asian countries, Ph.D. students

neering institutions if they are to be competitive in the future. they must invest more in science and engi-Unfortunately, there does not seem to be China and South Korea understand that

does not bode well for our future. the same commitment in this country. That We need to increase investment in re-

gross national product in physical sciences other nations. In 1970, the U.S. federal govsearch and development to keep pace with research. Today that percentage has been cut in ernment invested about 0.1 percent of our U.S. information technology manufacturing has

passed us in nanotechnology. worsening. Asian nations may already have surbeen in decline for a generation and the descent is

ergy research, which has been rapidly increasing in Western Europe and Japan industry and has virtually given up on fusion en-America has lost its dominance of the aerospace



U.S. REP GEORGE MILLER, D Martinez, says the nation must regain ground it's losing in innovation or face serious economic and national

may not be for long unless we greatly increase our is still a leader in science and technology, but it and in spending on long-term research and develinvestment in science and engineering education Despite all the negative trends, the United States

toward short-term development of products and ment in technology, most of the money is directed not innovative scientific research in which there is While the private sector has increased invest-

no short-term economic gain.

to make a major commitment to science and tific research. engineering institutions and to basic scien-That is why the federal government needs

the importance of investing in our future. if not in the White House, who understand Rep. George Miller, D-Martinez, is one of Fortunately, there are leaders in Congress,

Science Foundation and providing governfive-year \$128 billion initiative, which calls Internet access. ment cash to increase access to broadband ships, doubling the funding for the National neers and mathematicians through scholarfor educating 100,000 new scientists, engi-He is promoting the Democratic Party's

synthetic and bio-based fuels such as ethanol and to small businesses. and doubling federal funding for technical It also recommends public investment in

technology and bio-engineering research should include a major investment in fusion If anything, the initiative is too limited. It

in cooperation with the private sector. education and scientific research has long been an obligation of the federal government seen in a partisan light. Public investment in The innovation initiative should not be

Boidock, retired government relations execuattended a speech earlier this year by John tive for Texas Instruments. can Club in Washington, D.C., where Miller initiative, which was inspired by the Republi High-tech businesses strongly support the

ica's waning lead in science and technology and omy, security and quality of life. the disastrous impact it could have on our econ-Boidock warned the group about Amer-

rope and Asia in creating and developing the goods and services that will dominate the global economy in Congress and the Bush administration were to tion initiative before we fall behind Western Eutake up Miller's challenge and approve the innova-It would be encouraging if a bipartisan coalition