



Da Hsuan Feng

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Senior Financial Analyst, UNISYS Corporation

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Son: ***Ian Yiheng Feng***
New York University Law School

My life experience – living on three different continents – has endowed me with a global perspective. Very early on, my mother, a Julliard educated classical pianist/piano teacher and my father, a NYU Law School graduate and a WWII foreign and war correspondent, instilled in me a profound respect for education, the arts, the sciences, humanity and political astuteness. After 22 years of teaching and research, I became a Fortune 500 corporate vice president, and now a senior administrator for a research university in the Southwest. I am fortunate that the United States has given me the opportunity to leverage much of my academic, corporate and political experiences. Seldom have I allowed opportunities to slip by me, and I maintained lasting friendships and thus connections, anywhere on earth. The variety of influences, experiences and vast global connections has given me an intellectual, entrepreneurial, collaborative and eclectic view of higher education, especially research universities. Such a view will be the basis of whatever endeavor I pursue in the future.

Education

First and Second Year in Building and Civil Engineering, Singapore Polytechnic, 1962-64
A.B. (Physics) Drew University, 1968
M.Sc. (Physics) University of Minnesota, 1971
Ph.D. (Physics) University of Minnesota, 1972

Academic Administration, Corporate, Federal Agency and Advisory Positions

- *Special Assistant to the President (report to the President) on Global Strategies and International Relations (November 2006 – Now)*
- *Vice President for Research and Graduate Education/Economic Development), The University of Texas at Dallas, December 2000 – December 2006 (Report to President) <http://www.utdallas.edu/utdgeneral/news/archive/2000/fengappt.html>*
- *Vice President, Science Applications International Corporation (SAIC), 1998-2001 (<http://www.saic.com>)*
- *Program Director in Theoretical Physics, Physics Division, National Science Foundation, 1983-1985*
- *Member of Board of Directors of CellStar Corp (<http://www.cellstar.com>), 2005 January – Now. CellStar is a global handset distribution company, with annual revenue close to \$1 Billion.*
- *Member of the Scientific Board of Advisors of Genesis Campus, an accelerator and early stage venture capital firm (<http://www.genescampus.com>) 2002 - Now*
- *Science Advisor to New Economy Strategies, a strategy and implementation firm focused on regional economic development around technology cluster formation and growth (<http://www.new-econ.com>) 2002 - Now*
- *Business Board Chairman of D'Trends Inc, a Bioinformatics company in San Ramon, California (<http://www.dtrends.com>) 2000 - Now*
- *Advisory Board Member of Shenyang Dongyu Group Ltd (<http://www.dongyu.com.cn>) 2004-Now*
- *Advisor to CEO and Founder of Farsighted Group Ltd 2004 - Now*
- *Member of the National Defense Industrial Association (NDIA) Science and Engineering Technology (SET) Executive Committee 2004-Now*
- *Technical Advisor for Technology SCAN Panel on Exploiting Nanotechnologies, Science and Engineering Research Council, Singapore 2003 – Now*
- *Chairman of the Advisory Board, Guangyu Textile Corporation 2005-Now*
- *Advisor to Raylight Corporation (a San Diego Biotech startup) 2005-Now*
- *Board Member of BioDFW, 2006 – now*
- *Board Member of AeA (American Electronics Association) Texas Chapter, 2006 – now*

- *Chairman of the Scientific Advisory Board, i-Text Wireless Corp, 2006-Now*
- *Chairman of the Scientific Advisory Board, Inspherion Corp, 2006-Now*
- *Member of the Business and Scientific Advisory Board of Britton Chance Institute of Biomedical Photonics. Huazhong University of Science and Technology, Wuhan, China, 2006-Now*
- *Member of the Executive Advisory Board of Alan G. MacDiarmid Center for Renewable Energy, China Three Gorges University, Yichang, China, 2006-Now*
- *Advisor to Texas High Speed Rail and Transportation Corporation (2006-now)*

Academic Positions

- *Professor of Physics, The University of Texas at Dallas, 2000 – now*
- *M. Russell Wehr Chair Professor of Physics, Drexel University, 1991-2000*
- *Professor of Physics, Drexel University, 1986-1991*
- *Guest Professor, Institute of Physics, Academia Sinica, Taiwan 1991*
- *Associate Professor of Physics, Drexel University, 1981-1986*
- *Visiting Scientist, Institute of High Energy Physics, China 1981*
- *Assistant Professor of Physics, Drexel University, 1976-1981*
 1. *Visiting Professor, Niels Bohr Institute, Copenhagen 1979-1980*
 2. *Visiting Professor, Daresbury Laboratory, Daresbury, UK 1979 and 1980*
- *Senior Research Scientist, University of Texas at Austin, 1974-76*
- *United Kingdom Science Research Council Fellow, 1972-74*

Honorary Positions

- *Honorary Professor, Peking Union Medical College, China*
- *Honorary Professor, Lanzhou University, China*
- *Friendship Award, Chung Yuan Christian University, Taiwan, ROC*
- *Honorary Professor, Jilin University, China*
- *Honorary Professor, Fudan University, China*

- *Honorary Research Fellow, Academia Sinica Institute of Applied Physics, China*
- *Honorary Professor, Southwest Jiaotong University, China*
- *Honorary Professor, Nanjing University, China*
- *Honorary Professor, Northeast University, China*
(<http://www.utdallas.edu/research/news040705.htm>)
- *Honorary member of the Board of Trustees of Nanjing University, China*
- *Vice Chairman of the Board of the Alan G. MacDiarmid Institute of Jilin University*
- *Honorary Professor, China Three Gorges University, Yichang, Hubei, China*
- *Honorary Professor, Nottingham University Ningbo, China*
- *Honorary Professor, Zhejiang Wanli University, Ningbo, China*
- *Special Advisor to President Liu Defu, China Three Gorges University, Yichang, China*

Fellow of the American Physical Society, 1995

“For outstanding contributions to the understanding of nuclear structure physics, particularly for the applications of the coherent states to physics and nuclear physics”

Publications

A complete listing of 193 publications can be downloaded from
<http://utdallas.edu/research/archives/FengFullPublicationlist.pdf>

Accomplishments at UT Dallas

As designated by the former President, the Provost, and now the President, my objective at the University of Texas at Dallas is to build as rapidly as possible the research breadth and depth of the University. Taking into account the UT Dallas traditional strengths, size, resources and other boundary conditions, I articulated three concentrations of excellence for UT Dallas in this decade:

- *Digital communications*
- *Advanced materials and instrumentations*

- *Disease centric post genomic research.*

Since coming to UT Dallas, and focused on the above goal, I have achieved the following.

- *Research expenditure for UT Dallas increased from \$16 Million in 2000 to over \$41 Million 2005.*
- *Formed a powerful and active external Research Advisory Board to work closely with the internal Research Advisory Council (faculty members)*
- *Secured an endowed chair for a James Von Ehr Distinguished Chair in Science and Technology and recruited Dr. Alan MacDiarmid, the 2000 Nobel Laureate in Chemistry to fill this chair. Assisted Dr. MacDiarmid to establish centers bearing his name in Jilin University in China, Kanateka University in India, Victoria University in New Zealand, Chonnam National University in Korea and Universidad Brazilia in Brazil.*
- *Recruited Dr. Russell Hulse, Nobel laureate in physics in 1993, as Chair Professor as well as Associate Vice President for Research. Work with Dr. Russell Hulse and the regional educational leaders (Dallas Museum of Natural History, Science Place, Sci-Tech Discovery Center of Plano, Community Empower Foundation and Minnesota Science Museum) to develop an educational project.*
- *In close collaboration with the Dean of Natural Science and Chairs of Chemistry and Physics recruited the nanotechnology research team of Honeywell Corporation in New Jersey. This team is now the backbone of UT Dallas' rapidly growing nanoscience program*
(<http://www.utdallas.edu/utdgeneral/news/archive/2001/nanotech.htm>)
- *Manage over \$50 Million of Federal initiatives (awards for FY03, 4, 5, 6). Projects include*
 - *SPRING (Strategic Partnership of Research in NanotechnoloGy) project, which linked together UT Dallas, Rice University, the University of Texas at Austin, the University of Texas at Arlington, University of Houston and Air Force Material Command in Dayton, Ohio. Funding for FY03, FY04, FY05 and FY06 is \$41.5 million.*
 - *Request for FY07 is \$17.5 million for TEXAS AEROSPACE NANOMATERIALS CONSORTIUM (TANC) FOR AIR DEFENSE SUPERIORITY*
 - *Metroplex Center for Medical Imaging with UT Southwestern Medical Center, UT Dallas and UT Arlington For FY05, the Senate Defense Appropriation has allocated \$7.6 million for the Center*

- *UT Dallas-UT Southwestern Medical Center Sickle Cell center. This is the first and only Congressional mandated NIH sickle cell center in southwest United States. Funding for FY03, FY04 and FY05 is \$1.5 Million.*
 - *A ten university - UT Dallas-UT Arlington-UNTHSC-UTSAHSC-TAMU-TAMUHSC-UT Brownsville-Baylor Medical Research Center-Southern Methodist University and UT Medical Branch - Institute for Biomedical Science and Technology. Funding for FY06 is \$1.8 million. For FY07, the request is \$8 Million.*
 - *A three universities Vanderbilt University-UT Dallas-Michigan collaboration in medical device and system biology. FY07 request is \$5 million.*
 - *A four universities UT Dallas-UT Arlington-LSU-Purdue collaboration in grid computing and network security. FY07 requests is \$4 million.*
 - *Develop research collaborations (nano-at-the-border) with two border campuses of the University of Texas, Brownsville and Pan Am. Allocated \$350K (FY04 and FY05 combined) for each campus to jump start their material science research programs.*
 - *Initiated and secured for FY05 \$0.5 Million for three universities (UT Dallas, UT Houston Health Science Center and UT Brownsville) to study health (cohort studies) of Hispanic population in the Lower Rio Grande Valley.*
- *Established the Oracle Center Of Excellence For Spatial Data Management for the School of Social Science
(<http://www.utdallas.edu/utdgeneral/news/archive/2003/oraclecenter.html>)*
 - *Develop collaborative relations on material research with Raytheon Corporation in Garland and Lockheed Martin Aerospace Corporation in Fort Worth, Texas.*
 - *Develop collaborative relations on material research with Samsung Advanced Institute of Technology and Chonnam National University.*
 - *Develop a global rapid health response research collaboration with the Center of Public Security Sciences of Nanjing University and the Center of Bio-preparedness of the University of Texas Houston Health Sciences Center.*
 - *Initiated a FOUR CORNER (UT Dallas, Shanghai Jiaotong University, Greater Dallas Chamber of Commerce and Zezhu Science Park) collaboration for Greater Shanghai and the Metroplex.*
 - *UT Dallas designated as Center of Excellence in Information Assurance Education by two agencies of federal government
(<http://www.utdallas.edu/utdgeneral/news/archive/2004/nsa-dhsdesignation.htm>)*

- *Founded the Medical Device Action Alliance, a regional effort to promote interdisciplinary research in this technological arena. This Alliance is envisioned to be the platform to mix and churn the robust medical device community with the depressed telecom community.*
- *Assisted UT Dallas' Electrical Engineering team to link up with large defense contractors (Raytheon, Lockheed Martin, Galaxy Scientific, SAIC) to compete the Army's 10 year 93 million flexible panel initiative. Some 50 universities competed for this initiative. UTD was one of the two finalists.*
- *Led a Texas-Oklahoma-Mexico Research Executives Delegation to the Republic of Korea, Beijing and Shanghai in October, 2004. Universities involved are UT Dallas, UT Arlington, UT Austin, Texas A and M University, University of Houston, University of Oklahoma, Oklahoma State University, University of Tulsa and Monterrey Tec.*
- *Coordinated a UT Dallas delegation to visit in December 2004 three Indian Institute of Technology campuses (Bombay, Delhi and Roorkee) and the Tata Institute for Fundamental Research. The delegation is led by Alan MacDiarmid, Nobel laureate in Chemistry for 2000.*
- *Member of the United States Air Force Office of Scientific Research (AFOSR) nanotechnology delegation to visit the Republic of China (Taiwan) National Science Council and its affiliated research centers, April 18-20, 2005.*
- *Co-chair for the China-US Universities Presidents Forum. June 1, 2005, Seattle, Washington.*
- *Co-chair the November 2005 Latin American Workshop on "Legacy of S.S. Chern's Mathematics" in Centro de Investigacion en Matematicas, or CIMAT, in Guanajuato, Mexico*
- *Co-chair of the Sixth Emergence Information Technology Conference, August 10-12, 2006*
- *Leading the effort to start the Confucius Institute at UTDallas (An global program initiated by the State Office of China)*

Reports

<http://www.utdallas.edu/research/vpred/reports.html>

2005

- June 16-18
[First International Conference on World Class Universities at Shanghai Jiao-Tong University](#)

- *June 1*
[China-U.S. University Presidents Forum: Building Vibrant Higher Education in a Changing World](#)
 - *April 29*
[Air Force Office of Scientific Research \(AFOSR\) Nanoscience/Nanotechnology Delegation to Republic of China \(Taiwan\)](#)
 - *March 25*
[Report of UT Dallas Research Advisory Board Meeting: Globalization, Nonlinear Growth, Name Branding](#)
- 2004
- *July 22*
The Story of Association of American Universities (AAU): A Personal Perspective.
 - *July 16*
A Comparison of Three Top Research Intensive Universities (Purdue, Gatech and UCSD) with UTD: My latest visit to Purdue University.
 - *June 30*
An Eye Opening Visit to Georgia Institute of Technology (Georgia Tech).
 - *May 3*
UTD and Tecnologico de Monterrey (Monterrey Tech), Mexico meeting.
 - *The Research Advisory Board (RAB) of the University of Texas at Dallas (UTD).*
 - *April 30*
Texas and Oklahoma are OK! A meeting on April 30th, 2004 in the Board Room of Presbyterian Health Foundation in Oklahoma City.
 - *April 19*
A Day at the University of Texas at Austin: Sort of a Homecoming for me.
 - *April 14-16*
Some Personal Observations of the Tenth Annual Texas Higher Education Research Executives Conference, South Padre Island, Texas.
 - *March 30*
Alan G. MacDiarmid and Lockheed Martin Aeronautics of Fort Worth, Texas: A Regional Technological, Economic and Intellectual Powerhouse.
 - *March 25*
My Visit to Two Research Universities in San Diego: University of California at San Diego (UCSD) and San Diego State University (SDSU).
 - *March 15-22*
China paying serious attention to "Public Safety:" An Invitation from Nanjing University to Visit to Beijing and Nanjing.
 - *February 10, 2004 / January 20, 2003*
Two Visits to One of Texas' Academic Powerhouses: Rice University.

- *January 6*
Visit to Pacific Northwest National Laboratory (PNNL) By The University of Texas at Dallas Delegation.
- 2003
- *December*
An Afternoon Discussion with a Scientific Giant: Vladimir (Volodya) Agranovich.
 - *December 9*
National Institutes of Health, Nanomedicine and a SPRING Conference in UTD on 21st Century of Matter.
 - *October 17*
UTD's Alan MacDiarmid Delivered the Texas Center for Superconductivity and Advanced Materials (TcSAM) Distinguished Lecture in the University of Houston (UH).
 - *October*
SARS, Chinese Ministry of Health, Peking Union Medical College (PUMC).
 - *June 24*
A Short but Exciting Visit to Nottingham University, England.
 - *June 23*
"Tradition, Tradition, Tradition....": A Glorious Ceremony for Alan MacDiarmid, UTD's James Von Ehr's Distinguished Chair in Science and Technology Receiving the Doctor of Science, honoris causa, from Cambridge University.
 - *April 10-11*
Acknowledgement to all the speakers at the "Reprogramming the Brain" Conference organized by The University of Texas at Dallas-The University of Texas Southwestern Medical Center-Neuroscience Center at Presbyterian Hospital of Dallas.
 - *March*
Some Thoughts On Higher Education Across The Taiwan Straits.
 - *January 11*
Some Unabashed Thoughts About The Inauguration Event Of The Technology Alliance Of Dallas (TAD).
 - *Preface to a Memorial Volume Dedicated to Professor Jin-Quan Chen, Professor of Physics, Nanjing University, World Scientific Publications Corporation.*
 - *Preface to a Memorial Volume Dedicated to Professor Jin-Quan Chen, Professor of Physics, Nanjing University, World Scientific Publications Corporation. Chinese Version.*
- 2001
- *"Science is People!" An Unabashed Personal Report of the Inauguration of the Alan G. MacDiarmid Institute of Jilin University.*

2000

- *August*
Infotronics in a Global Knowledge-Based Economy - by Da Hsuan Feng and Hwa A. Lim.
- *July*
A Global Economy without a Global Government - by Hwa A. Lim & Da Hsuan Feng.

1999

- *December 7-9*
Congressional Delegation (Weldon, Hinchey (New York), Metcalf (Washington), Sanford (South Carolina), Souder (Indiana)) to Budapest, Hungary.
- *September 13*
Introduction of Congressman Curt Weldon Speech delivered by Weldon in the TEC Center of Allentown, Pennsylvania.

1997

- *March 24-28*
Congressional Delegation (Weldon) to Beijing and Shanghai.
- *January 21-31*
Congressional Delegation (Weldon (Pennsylvania), Fox (Pennsylvania), McHugh (New York), Salmon (Arizona), Ortiz (Texas), Ackerman (New York) and McNulty (New York)), January 1997 to Beijing, Hong Kong and Taiwan. Congressional Delegation (Weldon) to Beijing and Shanghai.

1995

- *November 30*
Visit by Russell Hulse to the Department of Physics of Drexel University.

Speeches

<http://www.utdallas.edu/research/vpred/speeches.html>

2005

- *February 2005*
Comments at the Opening Ceremony of the US-Mexico Workshop on “[Nanoscience for Advanced Applications: on Crossroads of Disciplines](#)” -- [A Love of Two Regions](#)

2004

- *January 23*
[Testimony for the United States House Science Committee on SBIR and STTR.](#)
- *June 18*
Science, Technology and Entrepreneur Spirit in North America and Asia in the 21st Century: A Global Transformation. Luncheon Speech at "Business and Investment Opportunities for US Corporations in Korea and the Pacific Region" Dallas, TX.

2003

- *December 5*
[Testimony for the United States House Science Committee on Nanotechnology.](#)

- *December 5*
Science, Technology and Entrepreneur Spirit on Both Shores of the Pacific in the 21st Century: A Global Transformation Keynote Speech at "IIT North Texas Alumni Group" Dallas, Texas.
- *October 13*
Inauguration of the Eddie Bernice Johnson Lecture Series in Science and Technology by Professor Betty Pace of UTD in the Metroplex.
- *August 18*
Welcoming Comments to UTD's New Faculty Members.
- *August 6*
Congratulatory Speech to Peking University Philadelphia Alumni Association (PUPA).
- *March 20*
Speech by Da Hsuan Feng after his inauguration as the Honorary Board of Trustees of Nanjing University, Nanjing, China.
- *March 20*
*Speech by Da Hsuan Feng after his inauguration as the Honorary Board of Trustees of Nanjing University, Nanjing, China March. **Chinese Version***
- *March 10*
Short comment for the 2nd Annual Research Symposium of the Human Language Technology Research Institute - The University of Texas at Dallas.
- *May 6*
Introductory Remarks at the University of Texas Arlington TXMEMS-2003 Conference
- *March 4*
Nortel Leadership Panel Discussion Nortel Campus, Richardson.
- *January 16*
Nano-At-The-Border Signing Ceremony by the Five Provosts of the University of Texas: How and Why.
- *Introductory Remarks for a "MIXER" Meeting Between Research Management of Research Universities, Venture Investors and Corporate Managements.*
- *CHURN: Research Universities' Responsibilities in the Entrepreneurial Landscape A Speech at the "Spirit" of Entrepreneurship Symposium Dallas.*

Recent Awards and Honors

- *1999 Millennium Award for Vision and Leadership in Technology, TechFEST '99 in Allentown, Pennsylvania*
- *1999 Delaware Valley (Pennsylvania) Technical Recruiting Network TECHIE Award*
- *2000 Institute Service Award of the Chinese Institute of Engineers - USA (CIE-USA)*

- 2000 Distinguished Alumni Award from his alma mater Drew University of Madison, New Jersey (<http://www.drew.edu/alumni/cla/reunions/2001/awards/sciences.html>)
- 2001 Science and Technology Award of the Greater Dallas Asian American Chamber of Commerce
- 2002 DFWTechbiz twelve persons to watch list
- 2002 Life Time Achievement Award from the Association of Chinese American Professionals
- Recipient of the 2003 Inside Collin County (Texas) Business 21 for the 21st Century award
- Dallas Section of IEEE 2003 Chairman Award for "outstanding promotion of engineering awareness and research."

Other Professional Positions

- Former Chairperson, Committee of the Arts and Sciences, Franklin Institute
- Advisor in nuclear physics publications, World Scientific Publications
- Former Editor-in-charge of North America, Modern Physics Letters A (Nuclear Physics section)
- Former Consultant to the Alabama EPSCoR Program Steering Committee
- Former International Advisory Board Member of the Chinese Journal of Nuclear Physics
- Former member of the Program Advisory Committee, Oak ridge National Laboratory
- Former Editor, Journal of Modern Physics E
- Former Editor, International Press
- Former Consultant to the Theoretical Physics Group of Oak Ridge National Laboratory
- Editor of Fizik, a physics journal of the Republic of Croatia
- Member of the International Standing Committee of the International Conference on Computational Physics
- International Editorial Board of the Chinese Journal of High Energy Nuclear Physics
- Editor of the International Journal of Modern Physics C (Physics and Computer)
- Former Co-chair of Congressman Weldon Working Group on the Four States (Delaware, New Jersey, Pennsylvania and Maryland)
- Former Board Member of the Philadelphia Archdiocese Technology Board
- Former co-director of the Consortium of K-12 Education with Intermediate Units of Berks, Bucks, Chester, Delaware and Montgomery Counties and the School District of Philadelphia
- (2001) Chair of the International Union of Pure and Applied Physics International Conference on Nuclear Physics
- President (1996-2000) of Monte Jade Science and Technology Association of Mid-Atlantic States, a rapidly growing chapter of a national organization of Chinese Americans entrepreneurs, with over 300 multinational corporation as members
- Special advisor to the Editor-in-chief of Korean American Science and Technology Network (which is read by 15,000 Koreans globally)
- Member (1999) of the Computer Science/Engineering Technical Evaluation Advisory Task Force of the Provost and President of the University of South Carolina

- *Member of the United States Department of Education (2000) Field Initiated Studies Technology Panel*
- *Special advisor to the Greater Philadelphia Association of Chinese Computer Professionals, a fast growing association of this community in the region*
- *Board member of the Texas Nanotechnology Initiative*
- *Advisor for the National Engineer Week Asian American Award Banquet (Feb 23rd, 2002, Dallas)*
- *Honorary Advisor of the Chinese Institute of Engineers/USA-DFW and Association of Chinese Professionals (DFW)*
- *External Advisory Board of the Chinese Institute of Engineers/USA-GNYC*
- *Technical Advisory Board, Taiwan Nanotechnology Initiative*
- *University coordination co-chair for the Space and Missile Defense Command Technology Center in Huntsville' Alabama*
- *Member of the International Advisory Committee of International Conference on Advanced Materials for Technologies 2003*
- *Member of the International Organizing Committee of the International Conference on Physics Education & Frontier Research 4th OCPA Joint Meeting of Chinese Physicists World-Wide*
- *2003 Member of the University of Texas Chancellor's Higher Education Act Working Group*
- *Chairman of the "Ad Hoc Southern United States Action Committee to Assist Chinese People to Fight Against SARS" (<http://www.sarssars.org/en/index.html>)*
- *DFW MIT Forum Advisory Board member*
- *Honorary Director of the Nanjing University Center for Public Security Sciences.*
- *International Steering Committee (ISC) of International Network for Engineering Education and Research (iNEER)*

Accomplishments at SAIC (1998-2000)

About HUBS: The Nation's First Smart Region

<http://www.hubs.org>

As the world continues to move rapidly into the era of knowledge-based economy, promoting and encouraging disparate communities in a region to collaborate will be critical for regional economic and intellectual competitiveness. In 1996, when I first met Congressman Curt Weldon, we began to strategize the formation of a FOUR STATES (Delaware, New Jersey, Maryland and Pennsylvania) HUBS project. HUBS is the acronym for Hospitals, Universities, Businesses and Schools. After two years of incubation, the HUBS project was launched through Science Applications International Corporation (SAIC), and I took a leave of absence from Drexel University to assume the Vice President and General Manager of HUBS in SAIC. The HUBS movement will be a strong catalyst for the transformation of the four-state region of Delaware, Maryland, New Jersey and Pennsylvania, and beyond, into the nation's first "smart region."

Education

HUBS Education is the "S" of HUBS, working to transforming the K12 schools of the four-state region into high-technology centers of excellence and producing graduates with the skills necessary to support the hospitals, universities, and businesses of the 21st century. HUBS Education (HUBS Ed) was initially funded by means of a \$5 million, two-year challenge grant from the US Department of Energy.

Medicine/Health

SAIC was awarded a \$7 million (30-month period of performance) contract from the Defense Advanced Research Projects Agency at the end of 1999, associated with Broad Agency Announcement (BAA) 99-23, "Regional Partnership and Consortia for the Next Generation Internet." Traditional security methods control the flow of information in ways that degrade performance. To meet bandwidth, latency, and security requirements simultaneously, the Next Generation Internet will require compatible Next Generation Virtual Private Network (NGI-VPN) technology. Applications development is focused on healthcare in this project, specifically applications that require the sharing of large medical images in a collaborative environment. The integration of NGI-VPN technology with our medical applications will advance the concept of a HUBS "Smart Region."

National Defense

Science Applications International Corporation (SAIC) was awarded a \$6.3 million contract from the United States Army Space and Missile Defense Command, Advanced Technology Directorate, on May 5, 2000 for the Wide Bandwidth Information Infrastructure (WBII) program. The period of performance is 18 months. WBII is applying advanced information technology that will help facilitate the development of the Theater High Altitude Area Defense (THAAD) and Navy Theater Wide (NTW) missile defense programs sponsored by the Ballistic Missile Defense Organization (BMDO).

High School Town Meetings:

*1988 Beijing (18 highschools participated)
1993 Beijing (20 highschools participated)
1993 Tianjin (300 students from Nankai University Attached HS participated)
1994 Chungli (12 highschools participated from Greater Taipei)
1994 Hanoi (200 Vietnamese physics Olympians participated)
1995 Taipei (400 HS students from Greater Taipei participated)
1997 Philadelphia (300 students from Greater Philadelphia participated)*

Weldon Working Group Workshops (1996-1998)

*Radiology (with Silicon Graphics)
Virtual reality (with SGI)
Data Mining (With IBM)
Distance Learning*

In three years as SAIC Vice President with responsibilities to build IT applications in four Northeastern States, the position was completely "result-driven" and moved me

*from a completely academic to a totally entrepreneurial environment, allowing me to work with leaders in medical schools, engineering colleges, corporate leaders, high schools administrators and political leaders, people I considered out of my normal habitat in my “cocoon” professor state. This experience immersed me into working with life scientists, engineers and technical and non-technical managers. All projects required disparate expertise and massive Federal contracts. It placed significant fiduciary responsibilities on me and taught me “outcome analysis”, corporate governance and ethics, functionalities of the Executive Branch and the US Congress and the languages of congressional staff members. The projects demanded that I roll disparate organizations and expertise into a cohesive force. I became totally cognizant of the meaning “**vision without funding and management is hallucination**”.*

Accomplishments at Drexel University (1976-2000)

Research Funding (1979-1998)

Uninterrupted funding (\$9000 in 1979 to \$150,000 in 1998) from the Physics Division of the National Science Foundation.

Teaching

Taught all the standard undergraduate courses in physics as well as advanced courses in physics for graduate students.

Organizer/Co-organizer of Events, Conferences, Symposiums and Workshops

- 1977 Conference on Optical Bistability, Philadelphia*
- 1980 Workshop in Nuclear Physics, Philadelphia*
- 1983 Workshop on Boson States in Nuclei, Philadelphia*
- 1984 Symposium on the Nuclear Shell Model, Philadelphia*
- 1985 24th Eastern Theoretical Physics Conference, Philadelphia*
- 1986 Conference on the Relations Between Reactions and Structures in Nuclear Physics, Philadelphia*
- 1986 XVth International Colloquium in Group Theoretical Methods in Physics, Philadelphia*
- 1987 Gordon Conference on Nuclear Chemistry*
- 1988 International Conference on Computational Physics, Beijing*
- 1989 Miniworkshop on Quantum Non-Integrability and Applications, Philadelphia*
- 1990 ACS Symposium on Nuclear Astrophysics, Boston*
- 1990 International Conference on the Nuclear Physics of the 90's*
- 1991 First Lanzhou Summer School on the Frontier Topics in Nuclear Structure Physics, Lanzhou, China*
- 1991 Franklin Institute Wetherill Symposium on Nuclear Superdeformation, Philadelphia*
- 1991 Symposium on Current Topics in Theoretical Physics, Philadelphia*
- 1991 Workshop on Spurious States in Boson Mapping, Philadelphia*

- 1991 *Workshop on the Origin of Nuclear Deformation, Oak Ridge*
 1992 *Franklin Institute Wetherill Symposium on Theoretical Physics and Astrophysics, Philadelphia*
 1992 *Franklin Institute Symposium on the Discovery of the Neutrinos, Philadelphia*
 1992 *3rd Drexel Symposium on Quantum Nonintegrability, Philadelphia*
 1992 *International Summer School on the Advanced Topics in Physics II, Tianjin*
 1993 *Symposium on the Beauty of Physics, Philadelphia*
 1993 *International Conference on Nuclear Structure Physics Today, Chungli, Taiwan*
 1993 *Franklin Institute Symposium on Quantum Wells, Philadelphia*
 1993 *Conference on Coherent States: Past, Present and Future, Oak Ridge*
 1993 *International Summer School on the Advanced Topics in Physics III, Tianjin*
 1993 *International Conference on Computational Physics II, Beijing*
 1994 *International Conference on Perspective of Nuclear Physics, Hanoi, Vietnam*
 1994 *4th Drexel Symposium on Quantum Nonintegrability*
 1995 *Symposium on Atomic Coherence and Inversionless Optical Amplification, Changchun, China*
 1995 *Spring School on Quantum Technology, Chungli, Taiwan*
 1995 *Franklin Institute International Conference on Fundamental Forces and Quantum Technology, Philadelphia*
 2002 *Symposium in honor of Alan MacDiarmid, Dallas*
 2004 *Symposium in honor of Vladimir Agranovich, Dallas*

Initiated the Drexel University College of Science Distinguished Lectures (1978-1995): C. N. Yang, Melvin Calvin, Willy Fowler, Paul Chu, Leon Lederman, J. J. Hopfield, S.S. Chern

Initiated the Greater Philadelphia Physics Colloquium Series (Bryn Mawr, Drexel, Haverford, Temple, University of Pennsylvania, Villanova and Swarthmore): T. D. Lee and S. Chu

Initiated the Franklin Institute Symposium in honor of Medal laureates: Gerry Brown (SUNY), Fred Reines (UC Riverside), Leroy Chang (IBM), C. N. Yang

Invited Talks (7 invited talks prior to 1987)

- 1987 *5th International Conference on Nuclei Far From Stability, Ontario, Canada*
 1987 *Oak Ridge User Theory Workshop*
 1988 *APS Meeting, Baltimore*
 1988 *Workshop on Nuclear Structure, Niels Bohr Institute*
 1989 *Workshop on the Microscopic Models of Nuclear Structure Physics, Oak Ridge*
 1989 *International Conference on Nuclear Reaction Mechanisms, Calcutta, India*
 1989 *NATO Workshop on Nuclear Equations of States, Spain*
 1989 *International Conference on the Spectroscopy of Heavy Nuclei, Crete*
 1989 *International Summer School in Nuclear Physics, Varna, Bulgaria*
 1989 *Taro Tamura Memorial Conference, Japan*
 1990 *International Conference on Medium and High Energy Physics, Taipei*
 1990 *First Lanzhou Summer School, Lanzhou, China*

1990 *First Warsaw Workshop on Important Problems in Nuclear Structure Physics, Poland*

1991 *Symposium on Contemporary Topics in Theoretical Physics, Nashville*

1991 *Workshop on Unstable Nuclei and Nuclear Astrophysics*

1991 *European Research Conference on Nuclear Physics, Hungary*

1991 *Symposium on Symmetry in Nuclear Physics, Ann Arbor*

1991 *APS Division of Nuclear Physics Meeting*

1991 *Reflection and Future Directions of Nuclear Physics*

1992 *International Conference on Rapidly Rotating Nuclei, Tokyo*

1992 *ACS Symposium on Exotic Nuclei, San Francisco*

1994 *II International Symposium on Heavy-Ion Physics, Lanzhou, China*

Seminars and Colloquia

1972 – 1989 130 presented

1989 *VPI, Iowa State, Notre Dame, Tohoku, Tsukuba*

1990 *Los Alamos, INS, Tokyo, National Taiwan University, Tsinghua University, Academia Sinica, Lanzhou University, Nankai University, Jilin University, Villanova University, Bryn Mawr University, Ohio State University, Kent State University*

1991 *CCNY, Lehigh, Kyushu, Bartol Research Foundation*

1992 *Chung Yuan Christian University, National Taiwan University*

1993 *Swarthmore College, National Tsinghua University*

1994 *Rutgers University, HK Baptist University, HK U of Science and Technology*

1995 *National University of Singapore, National Taiwan University, Academia Sinica, Drexel University, National Central University, University of Frankfurt, University of Tuebingen, University of Basel, Duke University*

Former Research Students and Postdocs

- *David Collinson* *Ph.D. 1986*
- *Hua Wu* *Ph.D. 1989*
- *Wei-Min Zhang* *Ph.D. 1989*
- *Jia-Lun Ping* *Ph.D. 1990*
(Jointly with Nanjing University)
- *Zimin Lu* *Ph.D. 1992*
- *Ziqiang Mao* *Ph.D. 1992*
- *Zheng-Kun Zhu* *Ph.D. 1995*
- *James Smith* *Undergraduate*
- *Ivaylo Zlatev* *Undergraduate*
- *Rong-Ping Wang* *Graduate*
- *Jian Huang* *Ph.D. 1999*
- *Phil Hulse* *Postdoc*
- *Xiangdong Ji* *Postdoc*
- *A. Novoselsky* *Postdoc*
- *S. Takeuchi* *Postdoc*

- *Xing-Wang Pan*
- *Yang Sun*

Postdoc
Postdoc