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NEW YORK UNIVERSITY – NOVEMBER 28 -29, 2007

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Professor Klaus Lackner

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Makerere University
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New York University
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Princeton University
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Prof. Stephen Pacala

Seoul National University
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Prof. Okyeon Yi
Prof. Sun-Jin Yun

Tsinghua University
Professor Dazhong Wang
Professor Kebin He

University of Amsterdam
President Karel van der Toorn
Prof. Louise O. Fresco

University of Botswana
Vice-Chancellor Bojosi K. Otlhogile
Prof. Opha Pauline Dube

University of British Columbia
President Stephen J. Toope
Prof. John B. Robinson

University of Dhaka
Vice-Chancellor Syed Md. Abul Faiz
Dean Borhan Uddin Khan

University of Oxford
Vice-Chancellor John Hood
Prof. Cameron Hepburn

University of Pennsylvania
President Amy Gutmann
Prof. Eric Orts

University of São Paulo
Prof. Pedro L. Silva Dias

University of Tokyo
Prof. Keisuke Hanaki

Yale University
President Richard Levin
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Ban Ki-moon
Secretary-General of the United Nations

Thomas C. Heller
Professor, Stanford Law School

Special Advisor to the Colloquium
Michael W. Doyle
Professor, Columbia University



Natthaphob Nimpitiwan, Ph.D. (Power Systems Engineering)

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EDUCATION

- Ph.D., Electrical Engineering, Arizona State University, Tempe AZ, USA, 2006
Dissertation title "Consequences of fault currents contributed by distributed generation"
- M.S., Electrical Engineering, Arizona State University, Tempe AZ, USA, 2002
Thesis title "Propagation of disturbances in distribution system "
- B.Eng., Electrical Engineering, Kasetsart University, Bangkok, Thailand, 1999

PROFESSIONAL (ACADEMIC) EXPERIENCE

- **Research Associate**, Arizona State University, 01/04-05/06, Power Systems Engineering Research Center, project on "New Implications of Power System Fault Current Limits".
- **Research Associate**, Arizona State University, 01/04-04/05, Power Systems Engineering Research Center, project on "The Impact of Widespread Distributed Generation on SRP Power Distribution Systems: Dynamic Performance".
- **Research Assistant**, Arizona State University, 07/01-12/02, Power Systems Engineering Research Center, project on "Propagation of Disturbances in Distribution System".

RESEARCH AND TEACHING INTERESTS

- **Research interests:** Electric power generation, Power system quality, Distributed generations, Power systems modeling and computer control, Evolutionary algorithms, Neural network, Transmission planning.
- **Teaching interests:** Power System Analysis and Computer Solutions, Power Quality, Power Electronics.

ACADEMIC AND PROFESSIONAL ACTIVITIES

Industrial Experience

1999 - 2000: Technical Support Engineer: lightning protection system design and installation, Bluestone Company, Thailand.

Teaching Experience

2001 - 2002: Lecturer at department of electrical engineering, Bangkok University, Thailand.

2003 - 2004: Lecturer at department of electrical engineering, Bangkok University, Thailand.

2005 - 2006 (May): Teaching assistant at Arizona State University, Tempe, USA

2006 (June) - Present: Lecturer at department of electrical engineering, Bangkok University, Thailand.

Professional Membership

- Institute of Electrical and Electronic Engineers (IEEE)
- Power Engineering Society (PES) of IEEE
- Council of Engineers (COE), Thailand

Selected awards

- Graduate Tuition Fellowship Award (GTF) Arizona State University, 2005-2006
- Faculty development program scholarship Bangkok University, Thailand, 2004-2006
- Faculty development program scholarship Bangkok University, Thailand, 2001-2002

PUBLICATIONS

Transactions

1. N. Nimpitiwan, G. T. Heydt, R. Ayyanar, S. Suryanarayanan, "Fault Current Contribution from Synchronous Machine and Inverter Based Distributed Generators," *IEEE Trans. Power Systems*, vol. 22, pp. 634-641, Jan. 2007.
2. N. Nimpitiwan, G. T. Heydt, "Coordination of protective relays by artificial ant colony optimization," *IEEE Trans. Power Systems*, submitted to published in 2006.
3. N. Nimpitiwan, G. T. Heydt, "Fault current allocation by the least squares method," *IEEE Trans. Power Systems*, vol. 20, pp. 2148 – 2150, Nov. 2005.

Conference Proceedings

1. N. Nimpitiwan, N. Chaiyabut, "Centralized Control of System Voltage/Reactive Power Using Genetic Algorithm," Accepted to be published in *Proc. the 14th International Conference on Intelligent Systems Application to Power Systems (ISAP)*, Taiwan, Dec. 2007.
2. N. Nimpitiwan, N. Chaiyabut, "Consequences from Distributed Generation to Electric Power Systems," Accepted to be published in *Proc. the Electrical Generating Authority of Thailand (EGAT) - Annual conference*, 2007.
3. N. Nimpitiwan, N. Chaiyabut, "Probabilistic Load Flow Solution Considering Reactive Power and Voltage Control," Accepted to be published in *Proc. the 8th International Power Engineering Conference (IPEC2007)*, Singapore, 2007.
4. N. Nimpitiwan, N. Chaiyabut, "Voltage/Reactive Power Flow Control by Genetic Algorithm: Application for a Distribution System in Thailand," Accepted to be published in *Proc. the 30th Electrical Engineering Conference (EECON-30)*, Kanjanaburi, Thailand, 2007.
5. N. Nimpitiwan, "Investigating Performance of Centralized and Decentralized Volt/Var Control using Monte Carlo Simulation," Accepted to be published in *Proc. the 30th Electrical Engineering Conference (EECON-30)*, Kanjanaburi, Thailand, 2007.
6. N. Nimpitiwan, G. T. Heydt, J. Blevins, A. B. Cummings, "Potential economic impact of fault currents contributed by distributed generation," in *Proc. Power Engineering Society General Meeting, 2005. IEEE*, pp. 2655-2660, Jun. 2005.
7. N. Nimpitiwan, G. T. Heydt, "Fault current issues for market driven power systems with distributed generation," in *Proc. North American Power Symposium (NAPS)*, pp. 400-406, Moscow, Idaho, Aug. 2004.
8. N. Nimpitiwan, N. Chaiyabut, "Control of Step Voltage Regulator by Artificial Neural Network," in *Proc. of Electrical Engineering Conf. (EECon)*, Bangkok, Thailand, Nov. 2004.
9. N. Nimpitiwan, G. T. Heydt, R. Ayyanar, J. Blevins, K. Koellner, K. Kittredge, M. Chandler, "The propagation of disturbances in power distribution systems," in *Proc. IEEE Transmission and Distribution Conference and Exposition*, vol. 1, pp. 6-12, Sep. 2003.

Technical Reports

1. G. T. Heydt, A. Bose, A. P. S. Meliopoulos, N. Nimpitiwan, Y. Zhang, "New Implications of power system fault current limits," Power System Engineering Research Center (PSERC), Tempe, AZ, Tech. Rep., Sep. 2005.
2. G. T. Heydt, R. Ayyanar, S. Suryanarayanan, N. Nimpitiwan, "The Impact of widespread distributed generation on SRP power distribution systems: dynamic performance," Power System Engineering Research Center (PSERC), Tempe, AZ, Tech. Rep. S-20, Jun. 2005.
3. N. Nimpitiwan, G. T. Heydt, "Consequences of fault currents contributed by distributed generation," Power System Engineering Research Center (PSERC), Tempe, AZ, Tech. Rep., Oct. 2004.
4. N. Nimpitiwan, G. T. Heydt, "The propagation of disturbances in power distribution systems," Power System Engineering Research Center (PSERC), Tempe, AZ, Tech. Rep., Dec. 2002.
5. N. Nimpitiwan, "Harmonics in power systems: harmonic filter design," Power System Engineering Research Center (PSERC), Tempe, AZ, Tech. Rep., May. 2002.
6. N. Nimpitiwan, "Marketing electric power: the cost of transmission services," Power System Engineering Research Center (PSERC), Tempe, AZ, Tech. Rep., Dec. 2001.

**Curriculum Vitae
of
MATHANA SANTIWAT, Ph.D.**

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Fax. (662) 240-1516
Email: mathana.s@bu.ac.th

I. EDUCATION :

1968 - 1972	B.B.A. (Accounting), Thammasat University, Bangkok, Thailand
1975	Certified Public Accountant of Thailand
1976 - 1977	M.Ac. Accounting, Utah State University, Logan, Utah, U.S.A.
1982 - 1985	Ph.D. Higher Education Administration, University of Kansas, Lawrence, Kansas, U.S.A.
1994 - 1995	Diploma of Highest Achievement, National Defense College, Thailand
2007	Certificate in Management of Higher Education Institutions from Galilee College in collaboration with Harvard Extension School

II. WORKING EXPERIENCE :

1972 - present	Full – time faculty, School of Accounting, Bangkok University
1976 - 1977	Studying for Master’s Degree in Accounting at Utah State University, U.S.A., on a Bangkok University Scholarship in the Faculty Development Plan
1978 - 1982	Dean, School of Accounting, 1 st Term, Bangkok University
1982 - 1985	Studying for Doctoral Degree in Higher Education Administration at University of Kansas, U.S.A., on a Bangkok University Scholarship in the Faculty Development Plan
1985 - 1986	Dean, School of Accounting, 2 nd Term, Bangkok University
1987 - 1988	Vice President for Planning and Development, Bangkok University
1988 - 2007	Vice President for Academic Affairs, Bangkok University
2005 - present	Member of the Board of Trustees, Bangkok University
2007 - present	President, Bangkok University

III. HONORARY AWARDS :

1986	Member (Fifth Class) of the Most Noble Order of the Crown of Thailand
1991	Member (Fifth Class) of the Most Exalted Order of the White Elephant

1996	Member (Fifth Class) of the Most Admirable Order of Direkgunabhorn
2001	Companion (Fourth Class) of the Most Admirable Order of Direkgunabhorn
1999	The Red Cross Medal of Appreciation (Third Class)
2000	Outstanding Alumni in Education of Alumni Association of Saint Joseph Convent School
2007	Alumni Merit Citation of Utah State University Alumni Association
2007	Commander (Third Class) of the Most Admirable Order of Direkgunabhorn

IV. SPECIAL PROFESSIONAL POSITION :

1991 - 1993	Committee on Qualification of CPA of Thailand, Ministry of Commerce
1991 - present	Member of the Federation of Accounting Professions (formerly the Association of Accountants and Certified Public Accountants of Thailand)
1994	Deputy Inspector, the National Scout Organization of Thailand
1995 - 2007	Editor, APHEIT Journal, the Association of Private Higher Education Institutions of Thailand
1998 - 2000	President, The Phi Delta Kappa-Thailand Chapter
1998 - present	Member, Executive Board, the Thai Women Watch
1999 - 2001	Member, Executive Committee, the Association of Private Higher Education Institutions of Thailand
2000	Thailand Delegate to attend the 44 th Session of the Commission on the Status of Women, United Nations, New York
2000	Chairperson, Working Group on Stratification and Higher Education Credit Transfer under the Ad Hoc Working Group on Higher Education Teaching and Learning Reform, Ministry of University Affairs
2002 - present	Academic Quality Assessor, the Office for National Education Standards and Quality Assessment (Public Organization)
2005 - 2008	Member, Executive Committee, the Association of South-East Asian Institutions of Higher Learning (ASAIHL)
2007	Member, Subcommittee of the Monitoring and Evaluation of Commission on Higher Education, the Ministry of Education
2007	Member, Executive Committee of Professional and Organizational Development Network of Higher Education of Thailand, Commission on Higher Education, the Ministry of Education
2007 - 2009	President – elect, the Association of Private Higher Education Institutions of Thailand.

Lee C. Bollinger

Lee C. Bollinger became the nineteenth President of Columbia University on June 1, 2002. A prominent advocate of affirmative action, he played a leading role in the twin Supreme Court cases—*Grutter v Bollinger* and *Gratz v Bollinger*—that clarified and upheld the importance of diversity as a compelling justification for affirmative action in higher education. A leading First Amendment scholar, he is widely published on freedom of speech and press, and currently serves on the faculty of Columbia Law School.

From November 1996 to 2002, Bollinger was the President of the University of Michigan at Ann Arbor, where he had also served as a law professor and dean of the Law School.

Under Bollinger's leadership, Columbia launched the largest capital campaign in its history, proposed its most ambitious campus expansion in more than a century, and received a record number of applications for its incoming undergraduate class. Committed to ensuring that, from its location in the nation's most global city, Columbia excels as a truly global university, he launched a number of new initiatives that include: the World Leaders Forum, which invites prominent international figures to the campus to engage in the major issues of our time; the faculty Committee on Global Thought, to pursue scholarship and generate new curriculum models that help students become better citizens of the world; as well as new academic partnerships with institutions around the globe.

Long a supporter of the arts, Bollinger created the Columbia Arts Initiative to enhance the role of the arts across many facets of the student experience and university life. In proposing that the University invest in long-term growth in upper Manhattan, he has committed to expanding Columbia's already extensive civic partnerships that work to improve education, health care and economic opportunity in West Harlem, Washington Heights and other local New York neighborhoods.

Bollinger is a director of the Federal Reserve Bank of New York and the Washington Post Company, a Governor of the Royal Shakespeare Company of Great Britain, a member of the Pulitzer Prize Board and New York Governor Eliot Spitzer's Higher Education Commission. Bollinger is also a fellow of the American Academy of Arts and Sciences and a member of the American Philosophical Society.

Widely published on legal and constitutional issues involving free speech and press, Bollinger books include: *Eternally Vigilant: Free Speech in the Modern Era*; *Images of a Free Press*; *The Tolerant Society: Freedom of Speech and Extremist Speech in America*; and *Contract Law in Modern Society: Cases and Materials*. He continues to teach an undergraduate course, "Freedom of Speech and Press" at Columbia each year.

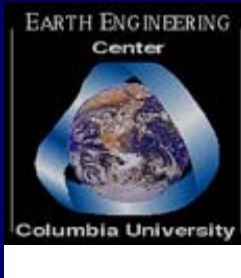
Bollinger has received the National Humanitarian Award from the National Conference for Community and Justice and the National Equal Justice Award from the NAACP Legal Defense and Educational Fund for his leadership on affirmative action. He also received the Clark Kerr Award, the highest award conferred by the faculty of the University of California, Berkeley, for his service to higher education, especially on matters of freedom of

speech and diversity. He is the recipient of numerous honorary degrees from universities in this country and abroad.

After graduating from the University of Oregon and Columbia Law School, where he was an Articles Editor of the Law Review, Bollinger served as law clerk for Judge Wilfred Feinberg on the United States Court of Appeals for the Second Circuit and for Chief Justice Warren Burger on the United States Supreme Court. He joined the University of Michigan Law School faculty in 1973.

Bollinger was born in Santa Rosa, California, and raised there and in Baker, Oregon. He is married to artist Jean Magnano Bollinger, and they have two children.

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KLAUS S. LACKNER

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Professional preparation:

Degrees from Heidelberg University, Germany; Vordiplom, (equivalent to a B.S.) in 1975, Diplom (or M.S.) in 1976 and Ph.D. in theoretical particle physics, summa cum laude, in 1978. Clemm-Haas Price for outstanding Ph. D. thesis at Heidelberg University; Cold Spring Harbor Summer School on Computational Neuroscience, 1985.

Prof. Lackner joined the faculty of Columbia University in 2001, where he is now the Ewing-Worzel Professor of Geophysics in the Department of Earth and Environmental Engineering. He received his Ph.D. in 1978 in theoretical physics from the University of Heidelberg, Germany. He held postdoctoral positions at the California Institute of Technology and the Stanford Linear Accelerator Center before joining Los Alamos National Laboratory in 1983. He has been a scientist in the Theoretical Division for much of that time, but also has been part of the Laboratory's upper management. He held several positions among them Acting Associate Laboratory Director for Strategic and Supporting Research, which represents roughly a third of Los Alamos National Laboratory.

Klaus Lackner's scientific career started in the phenomenology of weakly interacting particles. Later searching for quarks, he and George Zweig developed the chemistry of atoms with fractional nuclear charge. He is still participating in matter searches for particles with a non-integer charge in an experiment conducted at Stanford by Martin Perl and his group. After joining Los Alamos National Laboratory, Klaus Lackner became involved in hydrodynamic work and fusion related research. In recent years, he has published on the behavior of high explosives, novel approaches to inertial confinement fusion, and numerical algorithms. His interest in self-replicating machine systems has been recognized by Discover Magazine as one of seven ideas that could change the world. Presently he is developing innovative approaches to energy issues of the future. He has been instrumental in forming ZECA, the Zero Emission Coal Alliance, which is an industry-led effort to develop coal power with zero emissions to the atmosphere. His recent work is on environmentally acceptable technologies for the use of fossil

fuels.

Selected publications:

Klaus S. Lackner, Christopher H. Wendt, Darryl P. Butt, Edward L. Joyce and David H. Sharp, "Carbon Dioxide Disposal in Carbonate Minerals." *Energy* 20, (1995), 1153–1170.

Fraser Goff and Klaus S. Lackner, "Carbon Dioxide Sequestering Using Ultramafic Rocks." *Environmental Geoscience*, 5, No. 3, 1998, pp. 89-101.

Darryl P. Butt, Klaus S. Lackner, Christopher H. Wendt, Koji Nomura and Yukio Yanagisawa, "The Importance of and a Method for Disposing of Carbon Dioxide in a Thermodynamically Stable Form." *World Resource Review*, 11, 1999, pp. 196–219.

T. M. Yegulalp, K S. Lackner H-J. Ziock, "A review of emerging technologies for sustainable use of coal for power generation." Proceedings of the Sixth International Symposium on Environmental Issues and Waste Management in Energy and Mineral Production. Calgary, Alberta, Canada, May 30-June 2, 2000.

Klaus Lackner and Ralph Menikoff, "Multi-Scale Linear Solvers for Very Large Systems Derived from PDEs." *SIAM Journal on Scientific Computing* 21, (2000) pp. 1950–1968.

Klaus S. Lackner and George Zweig, "Introduction to the Chemistry of Fractionally Charged Atoms: Electronegativity." *Phys. Rev. D* 28 (1983) 1671.

R. Menikoff, K. S. Lackner, N.L. Johnson, S.A. Colgate, J.M. Hyman and G.A. Miranda, "Shock Wave Driven by a Phased Implosion." *Phys. Fluids*. A3(1), January 1991, pp. 201–218.

Klaus S. Lackner, Charles D. Hendrick, Martin L. Perl and Gordon Shaw, "Efficient Bulk Search for Fractional Charge with Multiplexed Millikan Chamber" *Measurement Science and Technology*, 5 (1994) 337–347.

Klaus S. Lackner, Christopher H. Wendt, "Exponential Growth of Large Self-Reproducing Machine Systems." *Mathematical and Computer Modelling* 21, (1995), 55–81.

Klaus S. Lackner, Hans-J. Ziock and Patrick Grimes. "Carbon Dioxide Extraction from Air: Is it an Option?" Proceedings of the 24th International Conference on Coal Utilization & Fuel Systems. Clearwater, Florida, March 8-11, 1999. pp. 885–896.

Javier Garciadiego

Mayo 2007

Javier Garciadiego was born in Mexico City in 1951. He holds a Bachelor's Degree in Political Science awarded by the National University of Mexico (UNAM); he received his Master's Degree in History from the University of Chicago. He obtained two PhD's in History, one from El Colegio de México and the other from the University of Chicago. The Mexican Revolution is his main research topic, especially in its political and cultural aspects, considered within a timeline that stretches from the late 19th century to the mid-20th century.

He has worked as professor at El Colegio de México, UNAM, and ITAM. From 1995 to 2001 he headed El Colegio's Historical Studies Center. He has been Visiting Professor in a number of universities worldwide (Chicago, Florence, Dublin, Madrid, Salamanca, Seville, Complutense, Fundación Ortega y Gasset). He has lectured at the universities of Harvard, Stanford, Oxford, Cambridge, Buenos Aires, Hamburgo, Colonia and Leipzig, among other academic forums.

In 1994 he was bestowed the Salvador Azuela Award, by the National Institute of Historical Studies on Mexican Revolution (INEHRM); in 1997 he won the "Biografías para leerse" contest with a biography of Manuel Gómez Morín. Since 1984, he is a member of the National Researchers System (SNI, level II).

He has published several articles and books, such as: *Así fue la Revolución mexicana* (an 8-volume series he coordinated; 1985-1986), *Rudos contra científicos. La Universidad Nacional durante la Revolución mexicana* (1996), *La Revolución mexicana. Crónicas, documentos, planes y testimonios* (2003), *Alfonso Reyes* (2004), *Introducción histórica a la Revolución mexicana* (2006), and *Cultura y política en el México posrevolucionario* (2006).

He hosts the weekly radio show *Conversaciones sobre historia* (Conversations on History), which is broadcast nationwide by the Mexican Institute of Radio. He is currently working on a biography of Manuel Gómez Morín.

From October 2001 to August 2005, he was director of the National Institute of Historical Studies on Mexican Revolution (INEHRM). Since September 2005, he is the president of El Colegio de México.



Dr. José Luis Lezama

Director
Centre for Demographic, Urban and Environmental Studies
El Colegio de México.

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Doctor José Luis Lezama (born June 4, 1952) earned his PhD in Social Sciences with specialization in Environmental Policy at the **Faculty of Environmental Studies, University College London** in the United Kingdom. Dr. Lezama is currently the **Director** of the Centre for Demographic, Urban and Environmental Studies (CEDUA) of **El Colegio de México** and **Director** of the Interdisciplinary Seminar on Environmental Studies at El Colegio de México. He was Visiting Professor at the Massachusetts Institute of Technology (MIT) in the Department of Air, Atmospheric and Planetary Sciences, coordinating the Chapter on Environmental Policy and Institutional Analysis in the Mexico City Air Quality Project under the coordination of the Nobel prize Dr. Mario Molina. He was Visiting Researcher in the Faculty of Architecture at the **Université Catholique de Louvain-La-Neuve**, Belgium and Visiting Researcher at Johns Hopkins University in the Department of Population Dynamics. Dr. Lezama is a columnist in the Mexican national newspaper **Reforma** writing on environmental, technological and social issues. He has recently been appointed as a member of the Advisory Board of the United Nation Program on Human Settlements UN Habitat and is Honourable Mention in the Mexican National Ecological Award. Dr. Lezama is the author of the following books: 1) *Population, City and Environment in Contemporary Mexico*; 2) *Environment, Society and Government: The Institutional Question*; 3) *The Social and Political Construction of Environment* (2004); 4) *The Environment Today: Crucial Issues in the Contemporary Debate* (2003); 5) *Divided Air: Criticism to the Air Pollution Policy in the valley of Mexico* (2000); 6) *Social Theory, Space and City* (1993); 7) *Society, Space and Population* (1990). Dr. Lezama is the author of more than 100 articles in books, journals and newspapers in Mexico and abroad on environment, social theory and urban development.

Name : Chen Yinzhang
Date of Birth : Dec.21, 1950
Place of Birth: Shanghai
Sex: Male
Academics: Professor of Education
Position: Associate President, International Affairs
Director, Office of Foreign Affairs, Fudan University
Executive Director , Centre for Nordic Studies, Fudan University
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Education:

1972-1975: Department of Foreign Languages and Literatures, BA
1983-1984: Visiting Scholar , St. Mary's College of Maryland,USA
1991-1993: College of Education , State University of New York at Albany, USA,MA

Working Experience:

1975-1983: Teaching in the Department of Foreign Languages and Literatures, Fudan University
1984-1990: Deputy Chair, and teaching in the Center for College English, Fudan University
1993-present: Director , Office of Foreign Affairs , Fudan University
Executive Director , Centre for Nordic Studies, Fudan University
Deputy Secretary-General , Board of Directors , Fudan University
2007-Aug. Associate President ,International Affairs
Jan.-Feb,1998: Co-teaching Asian Civilization in the Colorado College in Colorado

Academic works:

Editing and compiling of a number of textbooks of English languages studies, such as College English , Test of English as a Second English,etc
Translation of a number of academic and other books from English into Chinese and published in China, such as Making Decision in Europe , Witness to History, etc.

WANG SHENGHONG

Fudan University President Wang Sheng-hong is an award-winning scientist and researcher, renowned leader in education, and high-ranking political figure in Shanghai and nationally. As a native of Shanghai born in 1942, President Wang graduated from the Department of Precision Mechanical Engineering of the Shanghai University of Science & Technology in 1965. He pursued further studies and research in the departments of Civil Engineering and Mechanic Engineering at Purdue University (USA,1981-82); the Department of Space Engineering at the University of Arizona (USA), and the Department of Astronomy at the University of Texas (USA,1983). He holds honorary doctorates from the University of Manchester (UK), the National University of Ireland, Waseda University (Japan), and Chonnam National University (South Korea).

Scientific and Research Accomplishments

Appointed chaired professor by the Ministry of Education, President Wang was also Associate Director of the China Electro-Mechanical Engineering Association from 1980 to 1990. He was long engaged in teaching and research of the structural design of precision tracking radars, radio telescopes and large-scale antenna systems, and computational mechanics. He directed many research projects, including "Twenty-meter Satellite-antenna System within the K.C Frequency Range", "Six-meter-caliber Long Baseline Interferometer Radio Telescope", "Optimal Design of the Large-scale Antenna System", and "Reliability Analysis of Macrostructures". Besides his major monographs, "Structural Design of Electronic Apparatus", and "Finite Element Method and Its Application", he has published more than 40 theses.

Educational Leadership & Political Responsibilities

President Wang is one of the foremost educational leaders in China. In addition to being President of Fudan University, a position he has occupied since 1998, he was Executive President of the Shanghai University of Science & Technology, President of the University of Shanghai, Chair of the Shanghai Education Association for International Exchange, Director of the Office of Education and Health of Shanghai and Chair of the Shanghai Overseas Friendship Association.

President Wang's vision for scientific and educational progress has been carried forward in a wide range of high-level political responsibilities. He has been the Vice-chair of the People's Political Consultative Conference of Shanghai since 1995. He is a member of the University Grants Committee of Hong Kong and the International Academic Advisory Panel of the Ministry of Education, Singapore. In addition, he is member of the 9th National Political Consultative Conference; member of the 5th National Youth Federation; Director of the Division of the United Front of the Shanghai CPC Committee; and Vice-chair of the 5th China Education Association for International Exchange.

Awards

President Wang's academic awards include Chinese Academy of Sciences Award for Scientific & Technological Breakthroughs in the 6th Five-year Plan (1986), First Prize of the National Awards for Scientific & Technological Advancement in 1987, First Prize of the Shanghai Awards for Scientific & Technological Advancement (1990) .First Prize for the National Education & Scientific Research Achievements(1990). He was awarded as "Outstanding Worker in the Frontline of Science & Technology of Shanghai", "Outstanding Worker in the Frontline of Education of Shanghai", and "Shanghai Model Worker", and received the President's Medal, from George Washington University (USA).

Xin Yang

*Professor, Vice Dean of Department of Environmental Science & Engineering,
Fudan University, Shanghai, China*

Education

Ph.D., Department of Chemistry, Hong Kong University of Science and Technology, Hong Kong, China, June, 2000

MPhil., Anhui Institute of Optics and Fine Mechanics, Chinese Academy of Science, Hefei, China, June, 1993

B.S., Department of Chemistry, Anhui Normal University, Wuhu, China, July, 1989

Academic Positions

2006 – present, Professor, Department of Environmental Science & Engineering, Fudan University, Shanghai, China

2003 – 2006, Research Scientist, W. R. Wiley Environmental Molecular Sciences Laboratory, Pacific Northwest National Laboratory & Department of Physics, Washington State University, USA

2000 - 2003, Postdoctoral Research Associate, W. R. Wiley Environmental Molecular Sciences Laboratory, Pacific Northwest National Laboratory & Department of Physics, Washington State University, USA

1998 - 2000, Graduate Research Assistant, Department of Chemistry, Hong Kong University of Science and Technology, China

1996 - 1998, Graduate Teaching Assistant, Department of Chemistry, Hong Kong University of Science and Technology, China

1993 – 1996, Engineer, Hefei Institute of Economic and Technology, China

1989 - 1990, Research Assistance, Anhui Institute of Optics and Fine Mechanics, Chinese Academy of Science, China

Research Areas

1. Atmospheric chemistry: Mass spectrometry in aerosol chemistry
2. Structure of solvated ion clusters: Photoelectron spectroscopy of multiply charged anions

Selected Publications:

1. Synthesis of the H-Cluster Framework of Iron-Only Hydrogenase
C. Tard, X. Liu, S. K. Ibrahim, M. Bruschi, L. De Gioia, S. Davies, X. Yang, L. S. Wang, C. J. Pickett
Nature, **433**, 610 (2005).
2. Direct Experimental Observation of the Low Ionization Potential of Guanine in Free Oligonucleotides Using Photoelectron Spectroscopy
X. Yang, X. B. Wang, E. R. Vorpapel, L. S. Wang
Proc. Natl. Acad. Sci. USA, **101**, 17588 (2004).
3. Direct Measurement of the Hydrogen-Bonding Effect on the Intrinsic Redox Potential of [4Fe-4S] Cubane Complexes
X. Yang, S. Q. Niu, X. B. Wang, T. Ichiye, L. S. Wang
J. Am. Chem. Soc. **126**, 15790 (2004).
4. Solvent-Mediated Folding of a Doubly Charged Anion
X. Yang, Y. J. Fu, X. B. Wang, P. Slavicek, M. Mucha, P. Jungwirth, L. S. Wang
J. Am. Chem. Soc., **126**, 876 (2004).
5. Coulomb- and Antiferromagnetic-Induced Fission in Doubly Charged Cubelike Fe-S Clusters
X. Yang, X. B. Wang, S. Q. Niu, C. J. Pickett, T. Ichiye, L. S. Wang
Phys. Rev. Lett. **89**, 163401-1 (2002)
6. Bulk-Like Features in the Photoemission Spectra of Hydrated Doubly Charged Anion Clusters
X. B. Wang, X. Yang, L. S. Wang
Science **294**, 1322 (2001)

Biographical Sketch

Neil L. Rudenstine

Neil L. Rudenstine is Chair of the Board for ARTstor, an initiative of the A.W. Mellon Foundation. Previously, he was President of Harvard University from 1991-2001. From 1988-1991, he served as Executive Vice President of the Andrew W. Mellon Foundation. During the two preceding decades, Rudenstine was a faculty member and senior administrator at Princeton University. A scholar of Renaissance literature, he was an associate professor and then a professor of English. He also held a series of administrative posts: dean of students (1968-72), dean of the college (1972-77), and provost (1977-88). Previously, Rudenstine served at Harvard from 1964 to 1968 as an instructor and then an assistant professor in the Department of English and American Literature and Language.

Rudenstine received his bachelor's degree from Princeton in 1956. A Rhodes Scholar, he studied for the next three years at New College, Oxford University, where he earned a second BA and an MA. In 1964, he was awarded a PhD in English from Harvard, where he was a Harvard Prize Fellow. He then joined the faculty at Harvard, and stayed until leaving for Princeton in 1968.

Rudenstine is an honorary Fellow of New College, Oxford, and Emmanuel College, Cambridge University, as well as Provost Emeritus of Princeton University. He is also a Fellow of the American Academy of Arts and Sciences, a former director of the American Council on Education, and a member of the Council on Foreign Relations, the American Philosophical Society, and the Committee for Economic Development. He is currently on the Board of the Getty Trust, the New York Public Library, the Goldman Sachs Foundation, the Courtauld Institute of Art (London), Princeton University, the Barnes Foundation, and the American Academy in Berlin.

Professor Menachem Magidor
President, Hebrew University of Jerusalem

Professor Menachem Magidor has been the President of the Hebrew University of Jerusalem since 1997. He was born in Petah Tikva, Israel and served in the Israeli Navy. He received his PhD in Mathematics at the Hebrew University in 1972 and became a Professor of Mathematics at his alma mater in 1982. Professor Magidor's mathematical research focuses on Set Theory and Model Theory. He has also done research in Computer Science, dealing with Artificial Intelligence and Semantics of Programming Languages. During the past thirty years he has participated and lectured at mathematical conferences around the globe and has published numerous articles in professional journals.

As the President of the Hebrew University, Professor Magidor is continually working to improve the University and to give every student the opportunity to receive the highest quality of academic education possible. Whether it is in the natural sciences, the social sciences or the humanities, or in medicine, law or other professional schools, he is initiating and carrying out projects to update and expand the programs and facilities in the University's four campuses. He is presently serving his third term as President of the University.

Biography of Prof. Daniel Rosenfeld

Institute of Earth Sciences,
The Hebrew University of Jerusalem, Israel
Daniel.rosenfeld@huji.ac.il

November 2007

The main interest of Prof. Daniel Rosenfeld has been "weather modification", i.e., ways by which anthropogenic emissions into the atmosphere affect the clouds and precipitation, and the impacts on water resources, weather phenomena such as floods, hailstorms, hurricanes, and eventual manifestation on the overall climate system and the global temperature.

The interest of D. Rosenfeld in meteorology started already as a boy at the 8th grade, when he was a meteorological observer in a synoptic station at a kibbutz in the Jordan valley. He followed on that with B.Sc. in Geology, M.Sc. and Ph.D. (1986) in Cloud Physics, all at the Hebrew University of Jerusalem. During his Post Doctorate in NASA/GSFC (1986-1988) he started his pioneering work in satellite remote sensing, for which he received in 2001, the **Verner Suomi Medal** of the American Meteorological Society, "*for key contributions to remote measurement and interpretation of rainfall, cloud optical properties, and cloud microphysical properties*".

D. Rosenfeld returned to the Hebrew University as a faculty member (1988), which since then became the home base for his extensive international activities. D. Rosenfeld focused on the question of manmade impacts by combining in-situ aircraft measurements with remote sensing from radars and satellites and integrating all of them with models. In response to the need for better accuracy of radar rainfall measurements he developed improved methods for this. These methods became the basis for NASA's ground validation program of the Tropical Rainfall Measuring Mission satellite, which has been in orbit until the writing of these lines.

D. Rosenfeld developed satellite remote sensing methods for documenting the cloud microstructure and precipitation forming processes. The application of this new technology revealed the very large scale by which anthropogenic aerosol emissions alter the cloud composition to decrease cloud drop size and slow the rate of their coagulation into precipitation. This results in net decrease of rainfall from shallow and short living clouds. He quantified the precipitation losses, which amount to 10%-20% of the annual rainfall amount in hilly areas that irrigate semi-arid regions such as Israel, California and China. On the other hand he showed that the delay of early release of rainfall in deep convective clouds leads to eventual greater intensity of the storms and to greater likelihood of large hail and heavy downpours. D. Rosenfeld conducted aircraft cloud physics measurement campaigns in three continents that validated and added additional insights to the satellite inferences.

D. Rosenfeld also used the satellite methodology to document the mechanism by which tiny amounts of aerosols over the open oceans can make a huge difference in the extent of cloud cover. The precipitation from these clouds cleanses the lowest 1-2 km of the atmosphere to the extent that clouds cannot form because of lack of cloud condensation nuclei. These are the sites where very small added aerosols can induce the formation of clouds that reflect the solar radiation back to space and cool the climate system. D. Rosenfeld suggested that this is the mechanism by which cosmic rays might have been affecting the global temperature, and that this is where mankind can have a big intended impact on Earth's thermostat by intended dispersion of small amounts of aerosols. On the other end of the spectrum of geo-engineering D. Rosenfeld suggested that adding large amounts of small aerosols to hurricanes can decrease their intensities. This is a subject of rapidly growing interest.

A white page paper that D. Rosenfeld wrote based on his scientific insights was endorsed and announced as a joint IGBP (International Geosphere-Biosphere Programme) – WCRP (World Climate Research Programme) ACPC (Aerosol Clouds Precipitation Climate) initiative. The ACPC initiative is aimed at addressing the weakest link in our understanding the climate system and prediction of climate scenarios. The great sensitivity of the hydrological cycle, the cloud cover and Earth's energy budget to aerosols becomes to be appreciated, but not yet quantified. Our lack of quantitative knowledge of this effect induces uncertainty by a factor of at least two in the predicted change in global temperature. Therefore the kickoff meeting of the ACPC (October 2007 in Boulder, Colorado) has attracted the leading world climate scientists, including the lead authors of the IPCC, and is gathering momentum quickly. D. Rosenfeld's scientific leadership has been recognized by numerous international prizes.

Selected publications

Rosenfeld D. and I. M. Lensky, 1998: Satellite-based insights into precipitation formation processes in continental and maritime convective clouds. *The Bulletin of American Meteorological Society*, **79**, 2457-2476.

Rosenfeld D., 1999: TRMM Observed First Direct Evidence of Smoke from Forest Fires Inhibiting Rainfall. *Geophysical Research Letters*. **26**, (20), 3105-3108.

Rosenfeld D. and W. L. Woodley, 2000: Deep Convective Clouds with Sustained Supercooled Liquid Water Down to -37.5°C . *Nature*, **405**, 440-442.

Rosenfeld D., 2000: Suppression of Rain and Snow by Urban and Industrial Air Pollution. *Science*, **287** (5459), 1793-1796.

Rosenfeld D., R. Lahav, A. P. Khain, M. Pinsky, 2002: The role of sea-spray in cleansing air pollution over ocean via cloud processes. "Research Article" in *Science*, **297**, 1667-1670.

Andreae M.O., D. Rosenfeld, P. Artaxo, A. A. Costa, G. P. Frank, K. M. Longo, and M. A. F. Silva-Dias, 2004: Smoking rain clouds over the Amazon. *Science*, **303**, 1337-1342.

Rosenfeld D., Y. Kaufman, and I. Koren, 2006: Switching cloud cover and dynamical regimes from open to closed Benard cells in response to aerosols suppressing precipitation. *Atmos. Chem. Phys.*, **6**, 2503-2511.

Rosenfeld D. Aerosols, Clouds, and Climate. *Science*, **312**, 1323-1324, June 2006.

Rosenfeld D., 2006: Aerosol-Cloud Interactions Control of Earth Radiation and Latent Heat Release. *Space Science Reviews*. Springer, 9p. 6 December 2006. DOI: 10.1007/s11214-006-9053-6.

Rosenfeld D., A. Khain, B. Lynn, W.L. Woodley, 2007: Simulation of hurricane response to suppression of warm rain by sub-micron aerosols. *Atmos. Chem. Phys.*, **7**, 3411-3424.

Rosenfeld, D., J. Dai, X. Yu, Z. Yao, X. Xu, X. Yang, C. Du, 2007: Inverse relations between amounts of air pollution and orographic precipitation. *Science*, **315**, 9 March 2007, 1396-1398.

BRIEF BIODATA OF PROF. DAMODAR ACHARYA

Director, Indian Institute of Technology, Kharagpur



Professor Damodar Acharya received his Ph.D. (in 1975) and M.Tech. in IE & OR (in 1972) degrees from IIT, Kharagpur, and B.Sc.(Engineering) degree in Mechanical Engineering with distinction (in 1970) from NIT, Rourkela. Professor Acharya has about thirty two years of diversified experience - twenty seven years of teaching and research experience at IIT, Kharagpur, and five years of experience in academic administration as Vice-Chancellor, Biju Patnaik University of Technology, Rourkela, and Chairman, All India Council of Technical Education (AICTE), New Delhi. At IIT Kharagpur, he held several important positions, such as Head of the Department of Industrial Engineering and Management, Chairman of JEE, Dean of Sponsored Research and Industrial Consultancy, and Chairman of Vinod Gupta School of Management. He has proved himself as an individual possessing exceptional academic leadership and administrative skills.

As an academician, Professor Acharya has the distinction of supervising more than thirty Ph.D. students, and publishing more than 85 papers in journals of repute. He is a consultant to many world-class companies, such as Tata Steel, General Motors, Hindustan Lever, and Tata Chemicals, and handled projects worth more than Rs.15 crore.

His areas of interest and research include operation research, production planning and control, supply chain, and maintenance management. He is a fellow of both Indian National Academy of Engineering and National Academy of Sciences (India), and a member of several professional bodies, such as ORSI, IE(India), and IIIE.



Graduate from both *Sciences Po* and the *Ecole Nationale d'Administration* (ENA), Richard Descoings is CEO of the French National Foundation for political sciences and President of Sciences Po since 1996. He is a member of the French Supreme Court for public litigation (Conseil d'Etat). He also served as special advisor to the French *Ministre du Budget* (Chancellor of the Exchequer), then the French minister for national education, higher education and research. He is an active member of the French Universities' Presidents Association. He is an Honorary Doctor of Waseda University in Tokyo. He also received several Honorary awards (*Chevalier national de la Légion d'Honneur*, *Chevalier de l'Ordre National du Mérite*, among others and a member of the executive board of *Le Siècle Club*). Richard Descoings, who is 48, is married with 3 children in law. He lives in Paris.

Laurence Tubiana

Directrice

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Focal Areas

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Director, Institut du développement durable et des relations internationales

Laurence Tubiana is professor at the Ecole nationale supérieure agronomique of Montpellier and at the University of Montpellier, as well as associate professor at the Institut d'Etudes Politiques de Paris. Laurence Tubiana has also been member of the Council of Economic Analysis and Head of Research and Director of the department of International Economics at the National Institute of Agronomic Research (INRA). Apart from her research activities in the field of international economics and the environment, Laurence Tubiana was Founder and President of the French NGO Solagral. She also launched and directed the journal "Courier de la Planète". She has been consultant for various international organizations (UNCTAD, European Commission, World Bank) and Member of the Centre d'Analyse et de Prévision of the Ministry of Foreign Affairs. As well she has been a Member of the Scientific Board of the Institut de Recherche pour le Développement (IRD). Under former French Prime Minister Lionel Jospin, Laurence Tubiana was responsible for sustainable development issues and headed French delegations to several international environmental negotiations. She also a member of the Council of Economic Analysis of the Prime Minister and served as Prime Minister Jospin's senior Advisor in charge of the Environment. She is currently Director of the Institut du Développement Durable et des Relations Internationales (Institute for Sustainable Development and International Relations), Member of the China Council for International Cooperation on Environment and Development (CCICED) and Member of the Scientific Board of the Centre d'études et prospectives d'informations internationales (CEPII). She has recently been awarded the Chair of Sustainable Development at the Institut d'Etudes Politiques in Paris. Laurence Tubiana studied at the Institut d'Etudes Politiques in Paris and holds a Doctorate in Economics. She has published many articles and books on issues of sustainable development, the environment, and international issues.

B.B. BHATTACHARYA

Current Position

Vice Chancellor, Jawaharlal Nehru University, New Delhi – 110067. INDIA.

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E-Mail: vc@mail.jnu.ac.in; bbb@mail.jnu.ac.in

Previous Positions

Director, Institute of Economic Growth, Delhi. (July 2001 to June 2005).
Professor of Economics, Institute of Economic Growth, Delhi, 1981-2005.

Associate Professor, Institute of Economic Growth, Delhi, 1972-81.
Assistant Professor, Institute of Economic Growth, Delhi, 1970-72.

Personal: Born on March 9, 1945. Nationality: Indian. Married with 2 children.

Higher Education

Ph.D. (Economics): 1971, Delhi School of Economics, University of Delhi.
MA (Economics): 1966, First division with first position in order of merit,
University of Allahabad

Post-Doctoral Fellowships

Ford Foundation Post-Doctoral Fellow, Department of Economics, University of California, Berkley, USA, 1980-81.
UNESCO Fellow at the Seminar on the Use of Mathematics in the Social Sciences, Jablonna, Poland, July-August 1974.

Offices in Learned Societies

The Indian Economic Association

Elected as President (2007-2008)

The Indian Econometric Society

President (2003-04), Vice President (1996-98, Two Terms)
Secretary (1991-96), Joint Secretary (1990-91)

Indian Association for Research in National Income and Wealth

President (2006-10)(Two terms), Vice President (1998-2002)

Editorship of Journals

Editor –in-Chief, *The Journal of Income and Wealth*, 2002-
Member, Editorial Board: *The Indian Journal of Economics*; *The Indian Economic Journal*;
Labour and Development; and *Indrasprastha Journal of Management*.

Membership of Government Committees and Expert Bodies

Chairman, International Cost Comparison Programme, Central Statistical Organization, Ministry of Statistics, Government of India; Chairman, National Sample Survey 62nd Round, National Sample Survey Organisation, Government of India; Chairman, UGC Committee to suggest a broad framework of the scheme to start a fellowship for the students pursuing M.Phil/Ph.D. in Central Universities. In addition, members of many Committees and Commissions of Government of India, Planning Commission, Reserve Bank of India, etc.

Membership of Advisory Committees of Industrial Associations

Member, Managing Committee, Association of Chambers of Commerce (ASSOCHAM),
Member, Managing Committee, International Chambers of Commerce, India Chapter;
Member, Economic Advisory Council, Confederation of Indian Industries (CII), Member, High
Level Discussion Group, Federation of Indian Chambers of Commerce and Industry (FICCI),
Member, Advisory Council, India International Centre

Honorary Positions in Academic Organizations

Adjunct Professor in School of International Studies (CITD), JNU; Member, Academic
Committee of Institute of Economic Growth, New Delhi; Member, Executive Council of
University of Hyderabad, Hyderabad; Member, Board of Management, Indira Gandhi Institute
for Development Research, Mumbai and many others.

Member of the Supervisory Board of Foundation for Innovation Politique in Paris.

A recipient of Amity Life Time Academic Achievement Award in 2007.

Awarded Ambassador of Peace by Universal Peace Foundation.

Selected by the Europe Business Assembly (United Kingdom) for **Socrates International
Award**

Administrative Experience

Vice-Chancellor, Jawaharlal Nehru University, New Delhi-110067, since 30th June 2005
Director, Institute of Economic Growth, Delhi, from July 2001 to 29th June 2005
Member of Executive Committee and Finance Committee of various Central Universities

Publications:

Books

Macroeconomic Reforms, Growth and Stability, Oxford University Press, Delhi
(with Dr.Sabyasachi Kar), 2006

Mid-Year Review of the Indian Economy 2001-02, India International Centre, New
Delhi and Sipra Publications, New Delhi, 2001 (with N.R.Bhanumurthy).

Mid-Year Review of the Indian Economy 2000-01, India International Centre, New
Delhi and Sipra Publications, New Delhi, 2001.

Financial Reform and Financial Development in India, Excel Books, Delhi, 1998.

Stabilisation Policy Options for India: A Macro-Econometric Analysis, Development
Research Group Monograph, RBI, Bombay, 1994 (with R.B. Burman and A.K. Nag).

India's Economic Crisis, Debt Burden and Stabilisation, B.R. Publishing Corporation,
Delhi, 1992.

**Public Expenditure, Inflation and Growth: A Macro-Econometric Analysis for
India**, Oxford University Press, Delhi, 1984.

Short-Term Income Determination, Macmillan, Delhi, 1975.

Books Edited

Studies in Macroeconomics and Welfare, Academic Foundation, New Delhi, 2005
(eds. jointly with Arup Mitra)

**Indian Economy and Society in the Era of Globalisation and Liberalisation:
Essays in honour of Prof. A.M. Khusro**, Academic Foundation, New Delhi, 2004
(eds. jointly with C.H. Hanumantha Rao and N.S. Siddharthan)

CURRICULUM VITAE

Name : Dr. V.K. JAIN
Date of Birth : 10-9-1952
Nationality : Indian
Sex : Male
Designation : Professor and Dean
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ACADEMIC RECORD:

D. Phil (Physics): University of Sussex, Brighton (U.K.), 1982.

PROFESSIONAL CAREER

Post-doctoral Research Assistant (1982-1983): School of Mathematical and physical Sciences, University of Sussex, Brighton, U.K.

Scientist Class-I (1983-1985): Department of Physics, Indian Institute of Technology, Delhi, India, under the scientist's Pool scheme of Council of Scientific and Industrial Research, New Delhi, India.

Visiting Research Engineer (May 88-Sep. 88): Electrical Engineering Department, University of California, Los Angeles, Calif., U S A

Associate Professor (1985-1998): School of Environmental Sciences, Jawaharlal Nehru University, New Delhi

Professor (1998-Contd.): School of Environmental Sciences, Jawaharlal Nehru University, New Delhi

RESEARCH INTERESTS

Environmental Issues (Energy, Air and Noise Pollution).

ACADEMIC RESPONSIBILITIES

Teaching Postgraduate classes and supervising the research of M.Phil. / Ph.D.students.

TEACHING EXPERIENCE

- (i) Have taught M.Sc. and M.Phil. Classes for about 22 years at Jawaharlal Nehru University, New Delhi
- (ii) Undertook under-graduate Laboratory teaching at Sussex University (UK) (1977 – 1981).

MEMBERSHIP OF ACADEMIC BODIES:

- (i) Member on panel of experts of University Grants Commission (UGC), Council of Scientific and Industrial Research (CSIR), Union Public Service Commission (UPSC), Public Service Commission of Himachal Pradesh and Public Service Commission of Uttar Pradesh, National Institute of Science Communication and Information Resources (NISCAIR), New Delhi. Member, Editorial Board, World Applied Sciences Journal.
- (ii) Member, Syllabus formulation Committee for UGC- NET in Environmental Sciences (1998).
- (iii) Member, Academic Council, JNU, 1995-97; 2001—2003 and 2005-contd.
- (iv) Member University Court JNU, 1995 – 97; 2001-2003 and 2005-contd.
- (v) Member, Academic committee, College of Military Engineering, Pune (2003-2005).
- (vi) Member, Academic Committee, National Defense Academy, Khadakvasala, Pune (2005-contd).

RESEARCH ACTIVITIES AND PUBLICATIONS

Actively involved in research activities for past 32 years.

- (i) 66 publications in reputed international and national journals in the fields of Plasma Physics and Environmental Sciences.
- (ii) Supervised 15 Ph.D. Theses and 20 M. Phil. Theses.
- (iii) Presented papers in national and international seminars/ Conferences

REVIEWER OF RESEARCH JOURNALS:

Have reviewed research articles for the following Journals:

- (i) Physics of Fluids (Now named as Physics of Plasma)
- (ii) Journal of Acoustical Society of America
- (iii) Energy- The International Journal
- (iv) Indian Journal of Pure and Applied Physics
- (v) Atmospheric Environment
- (vi) Environmental Engineering Science
- (vii) Journal of Environmental Science & Engineering

Personal Career

1. Name

Susumu IAI

2. Address and phone/fax numbers

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3. Date of birth

January 15, 1952

4. Chronology of education

University of Tokyo, B.S., Civil Engineering, 1974
University of British Columbia, Canada, Visiting Researcher, 1980-1982
University of Tokyo, Doctor of Engineering, 1991

5. Chronology of Jobs held

1974- 1989	Earthquake Resistant Structures Laboratory, Port and Harbour Research Institute, Ministry of Transport
1989- 1998	Chief, Geotechnical Earthquake Engineering Laboratory, Port and Harbour Research Institute, Ministry of Transport
1998- 2001	Chief, Earthquake Disaster Prevention Laboratory, Port and Harbour Research Institute, Ministry of Transport
2001-2002	Director for Special Research (Disaster Prevention) Port and Airport Research Institute
2002-present	Professor, Disaster Prevention Research Institute, Kyoto University
2006-present	Director General, Institute of Sustainability Science, Kyoto University

6. Area of specialization

Earthquake Geotechnical Engineering, Sustainability Science

7. Primary Books in English

- (1) Iai, S. (2001): Seismic Design Guidelines for Port Structures, International Navigation Association (PIANC) ed., Baolkema, 474p.
- (2) Iai, S. (2002): Port Structures, in Earthquake Engineering Handbook, W.F.chen and C. Scawthorn eds, pp.27-1 – 27-21

8. Awards received

- (1) 1994 Award for outstanding research accomplishment, awarded by the Japanese Society of Soil Mechanics and Foundation Engineering
- (2) 1994 Prakash Award for significant contributions to geotechnical earthquake engineering, awarded by the Shamsher Prakash Foundation, U.S.A.
- (3) 1996 Award for outstanding research accomplishment, awarded by the Minister of Science and Technology Agency, Japanese Government
- (4) 1998 Best Paper Award, awarded by the Japanese Geotechnical Society

9. Notes on professional experience

(1) Reconnaissance of earthquake damage to port structures

Dr. IAI has rich experience in reconnaissance of damage to port structures at large earthquakes in Japan, including 1995 Hyogoken-Nambu (Kobe) earthquake (Richter magnitude 7.2) and 2004 Sumatra, Indonesia, earthquake (Richter magnitude 9.0).

(2) Academic contributions

Dr. IAI's academic contributions are directed toward developing a methodology to evaluate seismically induced deformation in soil-structure systems including port structures.

(3) International activities

Dr. IAI's recent international activities include

- 1993 Convener of International Workshop on Strong Motion Data, Menlo Park, Ca. U.S.A.
- 1993 – 1997 Joint project with Waterways Experiment Station, U.S. Army Corps of Engineers, for publication of English edition of "Handbook on Liquefaction Remediation of Reclaimed Land," originally published in Japanese
- 1994 - present Standing member of the International Standard Organization (ISO) TC67/SC7/WG3/Panel 5 for earthquake resistant design of offshore structures
- 1994 Member of judging committee of liquefaction resistant bridge design competition, the Institution of Civil Engineers, U.K.
- 1995 - present Standing member of Asian Technical Committee on Zonation of Geotechnical Hazards, Asian Society of Soil Mechanics and Foundation Engineering
- 1996 Convener of International Workshop on Site Response subjected to Strong Earthquake Motions, Yokosuka, Japan
- 1996 - 2001 Chairman of Working Group No.34: Effects of Earthquakes on Port Structures, International Association of Navigation (PIANC)
- 1997 Convener of Japan - U.S. Workshop on Acceptable Seismic Risk for Port Facilities, Yokosuka, Japan
- 2002-present Convener of ISO/TC98/SC3/WG10 Seismic actions on geotechnical works

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Research Interests and Experience:

• Main Research Experience:

Computer experiments of nonlinear plasma dynamics in space.
Theoretical studies of space plasma waves
Satellite observations and Rocket Experiments of space plasma waves
Microwave Power Transmission (MPT) Technology for Solar Power Satellite (SPS)
Computer Simulation of Microwave Device.
Laboratory experiments of plasma waves in space simulation chamber

• Current Research Subjects:

Plasma Wave Research by Spacecraft Observations
Theories and Computer Simulations of Space Plasma Dynamics
Microwave Power Transmission; Technology and Application
Space Solar Power Station (SPS; Solar Power Satellite)

Education

1965 Bachelor of Engineering, Department of Electronics, Kyoto University, Japan
1967 Master of Engineering, Department of Electronics, Kyoto University, Japan
1973 Ph.D., Kyoto University, Japan

Positions Held

2006- Executive Vice President (Research, Finance), Kyoto University, Japan
2005-2006 Executive Vice President (Research, Finance and Information Infrastructure), Kyoto University, Japan
2004-2005 Director, Professor, Research Institute for Sustainable Humanosphere, Kyoto University, Japan
2002-2004 Director, Professor, Radio Science Center for Space and Atmosphere Kyoto University, Japan
2000-2002 Professor, Radio Science Center for Space and Atmosphere, Kyoto University, Japan
1992-1998 Director, Radio Atmospheric Science Center, Kyoto University, Japan
1987-2000 Professor, Radio Atmospheric Science Center, Kyoto University, Japan
1967-1987 Associate/ Associate Professor, Kyoto University, Japan
Visiting Professorship at Institute for Space and Astronomical Sciences (JAXA/ISAS),
Institute for Fusion Sciences(NIFS) of Japan & Wuhan University, China

Research Activities and Professional Services

His main research areas are; Space plasma wave research via satellite observations; Theory and simulations of nonlinear plasma wave phenomena; Microwave Power Transmission and its application to SPS; Microwave device simulations and development He has authored and co-authored 289 refereed scientific papers in English, 55 refereed papers in Japanese. He edited 5 Books and authored one Book (in Japanese) in the field of the space science and technology. He has devoted himself to many academic and professional services to the space science and space technology communities. He has served to the International Union of Radio Science (URSI) through his service as Vice-Chair and Chair of Commission H on plasma waves from 1984-1990, and as Vice-President (1996-1999). He currently serves as President of URSI (1999-2002). He also contributed to the space simulation community by establishing International School for Space Simulations (ISSS) and still runs the ISSS. He has also served as the Editor of Geophysical Research Letters (1989-1994) and as the Editor of Journal of Geophysical Research (Space Physics) from 1995 to 2001. He has lead the Japanese space physics community as President (1998-2000) of the Society of Geomagnetism, Earth and Space Science (SGEPSS) in Japan. He is also leading a group of SPS (Solar Power Satellite) research in Japan and has promoted the development of microwave power transmission technology. He is members of various governmental Committees on Space Science, Radio Science and SPS research in Japan.

Award and Honors

Science and Technology Division, the Year 2006 Minister of the Ministry of Education, Culture, Sports,
Science and Technology Award, (2006)
Russian Federation of Cosmonautics Gagarin Medal (2006)
2005 IEICE Fellow Award (2005)
President Award of Kansai Bureau of Telecommunications (2004)
Royal Astronomical Society (RAS) Associate-Award
IEEE Fellow Award (2002)
ISAP2000 Conference Award for excellent paper (2000)
Shida-Rinzaburo Award for contribution to Radio Science (1999)
AGU Fellow Award for Space Plasma Physics (1999)
NASA Group Achievement Award (1998) for **GEOTAIL** PWI Team for Global Geospace Science (GGS)
NASA Group Achievement Award (1998) for **Polar** PWI Team Global Geospace Science (GGS)
NASA Group Achievement Award (1998) for GEOTAIL Plasma Wave Instruments
Tanaka Date Award for Nonlinear whistler wave Research (1975), SGEPPS, Japan

Professional Publications

1. 282 Scientific papers refereed International Journals (in English)
2. 132 Scientific papers (51 refereed and 70unrefereed Journals) (in Japanese)
3. Editions of 4 Books in the field of space plasma waves, computer simulations, satellite observations, laboratory plasma experiment and microwave energy transmission for Solar Power Satellite and Terrestrial Applications.
4. McGRAW-HILL YEARBOOK of Sci.&Tech. 1998:Solar energy
5. 1 Book on Space Science & Technology and Modern Computers (in Japanese).
6. Landolt-Boeoernstein-Handbook, Germany 2002: Historical review of wireless power Transmission.
7. Recent Advance in Technology for Fixation Cut and Available use of Carbon Dioxide, contribution to a chapter on "Solar Energy Utilization" (in Japanese)

CURRICULUM VITAE**A: General**

Names: Frank Kansiime
Sex: Male
Marital Status: Married with three children
Nationality: Ugandan
Date of Birth: 28th November, 1961
Contact: Makerere University,
 Institute of Environment &
 Natural Resources,
 P.O. Box 7298, Kampala-Uganda.
 Tel: Office; 256 41 530135
 Res; 256 41 250056
 Mob; 256 77 506520
 E-mail fksiime@muenr.mak.ac.ug

B: EDUCATIONAL BACKGROUND**(i) ACADEMIC QUALIFICATIONS**

Year	Qualification	Institution
1999	PhD Environmental Ecotechnology	International Institute for Infrastructural, Hydraulic and Environmental Engineering (IHE) and Wageningen Agricultural University (WAU), in The Netherlands.
1993	M.Sc Sanitary (Environmental) Engineering	International Institute for Infrastructural, Hydraulic and Environmental Engineering (IHE), The Netherlands.
1991	M.Sc Applied (Environmental) Microbiology	University of Dar es Salaam, Tanzania.
1988	B.Sc with Educ. (Biol. Chem. & Educ.)	University of Dar es Salaam, Tanzania

B: KEY QUALIFICATIONS

Dr. Kansiime is an Associate Professor and Director of Makerere University Institute of Environment and Natural Resources. He has a long experience in the environmental field, most of which in the water and waste-water sector. He holds a PhD in Environmental Ecotechnology (using ecosystem processes to solve environmental problems), MSc in Sanitary (Environmental) Engineering and MSc in Applied (Environmental) Microbiology. He teaches courses in water, wetlands, solid wastes, energy, environmental microbiology and research methods at the Institute.

He is currently keen in areas of climate change and climate variability with interest on water resources. He recently facilitated of a video conference on the "dialogue on water and climate change Africa" 22nd march 2007 participating countries were Uganda, Egypt, Ethiopia, Zambia, Ghana and the Netherlands that took place on 27th March 2007.

He was part of the team team that developed a first ('position paper) white paper on the dialogue on water and climate change that took place n Delft The Netherlands in February 2002.

C: EMPLOYMENT RECORD AND PROFESSIONAL EXPERIENCE

January 2005 to date	Associate Professor at the Institute of Environment and Natural Resources, Makerere University.
September 2000 to December 2004	Senior Lecturer at the Institute of Environment and Natural Resources, Makerere University.
Dec.1991 – August 2000	Lecturer at the Institute of Environment and Natural Resources, Makerere University in; water Resources Management, Water Quality Assessment, Waste Management (solid and liquid), Wetlands Ecology and Management, Pollution Control, Energy, environmental microbiology and Research Methods. Have supervised more than 15 MSc and 4 PhD students.

D: Recent Publications

1. Azza, N., van de Koppel, J. Denny, P. and Kansiime, F (In Press). Shoreline vegetation distribution in relation to wave exposure and bay characteristics in a tropical great lake, Lake Victoria. *Journal of Tropical Ecology*
2. Kansiime, F., Saunders, M.J. and Loiselle, S.A (In Press) Functioning and dynamics of wetland vegetation of Lake Victoria; an Overview. *Wet lands Ecology and Management*
3. Loiselle, S., Cózar, A., van Dam, A. A., Kansiime, F., Kelderman, P., Saunders, M and Simonit, M. (2006). Development of tools for wetland ecosystem resource management in Eastern Africa, Focus on Lake Victoria papyrus wetlands. In Verhoeven J.T.A, Beltman B., Bobbink, R. and Whigham D.F (eds). *Wetlands and natural resources management (Volume 190) Ecological Studies*. Springer-Verlag Berlin, Hiedelberg
4. Azza, N., Denny, P., van De Koppel, J. and Kansiime, F (2006). Floating mats: their occurrence and influence on shoreline distribution of emergent vegetation. *Freshwater Biology*, **51**: 1286–1297
5. Kaggwa, R.C., Kasule, D., van Dam, A. A., and Kansiime, F. (2006). An initial assessment of the use of wetland plants as substrates for periphyton production in seasonal wetland fishponds in Uganda. *International Journal of Ecology and Environmental Sciences*, **32**(1): 63-74
6. Byamukama, D., Farnleitner, A. H., Kansiime, F., Manafi, M., Martina Burtscher, M and Mach, R. L. (2005) Contrasting occurrence of *Chromobacterium violaceum* in tropical drinking water springs of Uganda. *Journal of Water & Health* **3**: 229-238
7. Mwiganga, M. and Kansiime, F. (2005). The impact of Mpererwe landfill in Kampala – Uganda, on the surrounding environment. *Journal of Physics and Chemistry of the Earth*. **30**: 744-750
8. Kansiime, F., Oryem-Origa, H., and Rukwago, S. (2005). Comparative assessment of the value of papyrus and cocoyams for the restoration of the Nakivubo wetland in Kampala, Uganda; *Journal of Physics and Chemistry of the Earth*. **30**: 698-705
9. Kyambadde, J., Kansiime, F. and Dalhammar, G. (2005). Nitrogen and phosphorus removal in subsurface-free pilot constructed wetlands with horizontal surface flow in Uganda. *Water, Air and Soil Pollution*, **165**: 37-59
10. Byamukama, D., Mach, R. L., Frank Kansiime, F., Manafi, M. and Farnleitner, A, H (2005). Discrimination efficacy of fecal pollution detection in different aquatic habitats of a high-altitude tropical country, using presumptive coliforms, *Escherichia coli*, and *Clostridium perfringens* spores. *Applied and Environmental Microbiology* **71**: (1) 65-71.
11. Kansiime, F; Opiyo, A; Mafabi, P. and Busulwa, H. (2005) Kinawataka wetland: a functional ecosystem that can be used as a reference to conserve other wetlands in Uganda. In: Vymazal J. (Editor), *Natural and constructed wetlands: Nutrients, Metals and Management*, pp 369-381; Backhuys Publishers, Leiden, The Netherlands.
12. Kaggwa, R. C., Kansiime, F., Denny, P. and van Dam, A.A. (2005). A preliminary assessment of the aquaculture potential of two wetlands located in the northern shores of Lake Victoria, Uganda. In: Vymazal J. (Editor), *Natural and constructed wetlands: Nutrients, Metals and Management*, pp 350-368; Backhuys Publishers, Leiden, The Netherlands.
13. Pokorny, J., Prikryl, I., Fiana, R., Kansiime, F., Kaggwa, R., Kipkemboi, J., Kitaka, N., Denny, P., Bailey, R.G., Lamtane, H.A. and Mugaya, Y.D. (2005). Will fish pond management principles from the temperate zone work in tropical fingerponds? In: Vymazal J. (Editor), *Natural and constructed wetlands: Nutrients, Metals and Management*, pp 382-399; Backhuys Publishers, Leiden, The Netherlands.

PROFESSOR LIVINGSTONE S. LUBOOBI (BRIEF CURRICULUM VITAE)

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1. BIODATA

NAME: Livingstone Serwadda **Luboobi**
DATE OF BIRTH: **25 December 1944** PLACE OF BIRTH: *Kalisizo*
NATIONALITY: *Ugandan*
MARITAL STATUS: *Married, 4 sons and 3 daughters*

2. EDUCATION

<u>Date</u>	<u>Institution</u>	<u>Qualifications Obtained</u>
1967 - 1970	Makerere University College	First Class (Hons) B.Sc. degree in Mathematics
1971 - 1972	University of Toronto	Master of Applied Science, Operations Research
1978 - 1980	University of Adelaide	Applied Mathematics PhD. in Biomathematics

3. PRIZES, GRANTS AND SCHOLARSHIPS AWARDED

1967/68: Won the Makerere University College, Faculty of Science Archer Strurroch Prize.
1968/69: Won Makerere University College Exhibitions Prize.
1971-1972: Commonwealth Scholarship in Canada.
1978-1980: Obtained a Postgraduate Research Scholarship, University of Adelaide, South Australia.
1991/92: Obtained a Fulbright Scholarship at University of California, Berkeley, USA.
Aug– Oct. 2002: Guest Researcher, University of Bergen, Norway

4. EMPLOYMENT & RESPONSIBILITIES

<u>Date</u>	<u>Designation</u>	<u>Institution</u>	<u>Responsibility</u>
1 st June 2004 -to-date	Vice Chancellor	Makerere University	Chief Executive Officer; Academic & Financial Affairs; General Administration
Jan - March 1998	Visiting Professor	University of Dar es Salaam	Offered Postgraduate Courses on Mathematical Modelling & Stochastic Systems
12 March 1997	Professor of Applied Maths	Makerere University	Lecturing, Supervising and doing research in Biomathematics and Operations Research
April 1994 - 9 May 2001	(Two terms) Dean, Faculty of Science	Makerere University	Coordinating academic programmes and administration
Oct. 1987 - Oct. 1992	Head, Dept. of Mathematics	Makerere University	Management of the department; research and lecturing
1985 - 1997	Associate Prof.	Makerere University	Conducting Graduate Courses in Biomathematics & Operations Research
1973 – 1985	Lecturer; and Senior Lecturer	Makerere University	Offering courses in Probability Theory, Statistics, Mathematical Programming & Mathematics

5. PROFESSIONAL SOCIETIES/ASSOCIATIONS

Sept 1992 – to date:	Member, Uganda Biometric Society
Jan. 1991 - to date:	Member of International Biometric Society
Sept. 1995 –Jan 2000:	Secretary, African Mathematical Union Commission on Pan-African Mathematics Olympiad.
Mar.2001 – to date:	Member of Uganda National Academy of Sciences
Jan.2001 – to date:	Member, The Institute of Mathematical Statistics
Jan.2002 – to date:	Member, The Society for Mathematical Biology
Apr. 2002 – to date:	Member of the Advisory Board for the East Africa University Mathematics Programme, supported by International Science Programme, Uppsala, Sweden
Dec. 2003 – 2006:	President, African Society for Biomathematics (ASB)
July 2004 – to date:	Member of the Uganda Public Universities Vice Chancellors Forum
September 2004 – to date:	Member of the Board of National Council for Higher Education, Uganda
September 2004 – to date:	Member of the Board of Trustees of Plant Resources of Tropical Africa
October 2004 – to date:	Fellow of Uganda National Academy of Sciences
1 July 2007 -	Vice Chairperson of the Governing Board of the Inter-University Council for East Africa

6. OTHER RESPONSIBILITIES/EXPERIENCES

a) Projects Initiated

1991 - 1992: Initiated a "**Distance Learning**" Project in the Department of Mathematics, Makerere University. The project was funded by Rockefeller Foundation.

(b) Programmes/Projects Coordinated

June 2004 – to date: Chairman, Innovations at Makerere Committee (I@mak.com), supported by World Bank (IDA) and Rockefeller Foundation

March 2000–June 2004: Makerere University Co-ordinator of the Makerere University – University of Bergen Collaboration Programme

July 1997 – Dec. 2001: Makerere University Main Co-ordinator of the NUFU Project 39.2/91 on "Basic Science for Technological Development in Uganda": A collaboration between University of Bergen, Norway and Makerere University.

Jan. 2002 – June 2004: Makerere University Main Co-ordinator of the NUFU Project 33/02 "Research in Basic Sciences for Technological Development of Makerere and collaborating Universities": a Collaboration between University of Bergen, Norway and Makerere University.

7. AREA OF RESEARCH

Mathematical Epidemiology: Supervised 11 PhDs & 25 M.Sc students
Published over 30 articles in field of Mathematical Modelling

7. GUEST RESEARCH AWARDS

- While at University of California, Berkeley as a Fulbright Scholar, my research project was on "*Age Group Models for the Dynamics of the HIV/AIDS epidemic (in the context of Uganda)*". In connection with this research I gave a series of public and academic lectures at: University of California, Berkeley; University of California, Los Angeles; San Jose State University, California; Colorado College, Colorado Springs, Colorado.
- While at University Bergen, Norway as a Guest Researcher (mentioned in 2), my research project was on "*Mathematical Models for the Study of Immune System Response to HIV*". In connection with this research I gave seminars at: Department of Mathematics, Uppsala University, Sweden; Department of Mathematics, Luleå University of Technology, Sweden