Curriculum Vitae

Hoong-Chien (Paul) Lee

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Dr. Lee is a Ministry of Education National Chair Professor, and University Chair Professor of Biophysics at the National Central University. He was educated at the National Taiwan University (BSc, 1963) and McGill University (PhD, 1969). He worked at the Canadian Chalk River Research Laboratories as a theoretical physicist from 1968 to 1993, when he was senior research officer and director of the Center for Mathematical Sciences. In 1993 he returned to Taiwan, first chairing the physics department of the National Chung Hsing University from 1993 to 1995 then moving to the National Central University in 1995, where he is professor with the Department of Physics and, since 2006, founding head of the new the Graduate Institute of Systems Biology and Bioinformatics. He is the recipient of a number of academic awards and a Fellow of the Physical Society of ROC. Prior to 1997 his research areas was theoretical and mathematical physics. In 1997 he turned to theoretical and computational biology and helped the new National Center for Theoretical Sciences establish the "Biology Inspired Theoretical Science" (BITS) program, which promotes cross-disciplinary research involving the natural and life sciences. At NCU, he was the founding director of the Center for Complex Systems in 1996, which in 2003 spawned the Graduate Institute for Biophysics, the first of this field in Taiwan. In 2005 he led successful drives to found the Graduate Institute of Systems Biology and Bioinformatics, again the first of its kind in Taiwan, and the Center for Biotechnology and Biomedical Engineering. His Computational Biology Laboratory conducts cross-disciplinary research on genomics, neural science, and systems biology.

Paul H.C. Lee

DATE AND PLACE OF BIRTH: 1941 August 12, Hong Kong

CITIZENSHIP: Republic of China

EDUCATION

Ph.D. McGill University (1969); B.Sc. National Taiwan University (1963)

CURRENT POSITIONS

Head, Graduate Institute of Systems Biology and Bioinformatics (2006-) and Professor, Department of Physics (1995-), National Central University Visiting Professor, Institute of Theoretical Physics, Academy of Science, Beijing, China, (2000-).

EXPERIENCE

Chairman and Professor of Physics, Department of Physics, National Chung Hsing University, Taichung, Taiwan (1993-95); Adjunct Professor, Department of Applied Mathematics, University of Western Ontario, London, Canada (1986-94) ; Director, Centre for Mathematical Sciences (1992-93), Senior Research Officer, Theoretical Physics Branch (1985-93), Research Staff Member (1968-93), Chalk River Laboratories, AECL Research, Ontario, Canada.

SCHOLARSHIPS, FELLOWSHIPS, AWARDS

Ministry of Education (ROC) National Chair Professor (2006-2009); University Distinguished Professor (National Central University, 2005-); National Science Council (Taiwan; NSC) Outstanding Research Award (2001-2002); Fellow, Physical Society of the Republic of China (Elected 1997); NSC Outstanding Research Award (1994-95); NSC Research Awards (1993-, annually); Natural Sciences and Engineering Research Council Operating Grants (Canada) (1986-1994); NATO Advanced Study Institute Award (1989); NATO Collaborative Research Grant (1988); Robinson College (Cambridge, UK) Fellowship (1987); NATO Advanced Research Workshop Award (1986); NATO Collaborative Research Award (1985); Royal Society Fellowship (UK) (1985); Canadian National Research Council Scholarships (1966-68).

VISITING POSITIONS

Visiting Professor: Center for Mathematical Research, University of Montreal, August-October, 2002; Stanford University, March-June, 2001; Summer visits to Chalk River Labs, Simon Fraser University, TRIUMF and University of British Columbia since 1994-2000; National Taiwan University, 1993; Research Institute of Mathematical Sciences, Kyoto University, 1991; Nankai Mathematics Institute, Tianjin 1988; Cambridge University, 1987, 1985; National Taiwan University, 1984; University of Alberta 1981; TRIUMF 1979; Brookhaven National Laboratory 1978, 1977; Niels Bohr Institute 1978; McGill University, 1975; University of Toronto, 1973.

SERVICE

Member, Natural Science Division Advisory Committee, National Science Council, (2003-); Coordinator, National Science Council Center for Theoretical Sciences Core Program on Biology Inspired Theoretical Sciences (BITS) (2000-2005); Member, Ministry of Education Committee on Physics Terminology (2000-).

Member, Executive Committee, National Science Council Center for Theoretical Sciences, (1997-2000); Member, Council, Chinese Physical Society, (1997-2000); Member, Advisory Board, CAP Summer Institute 1987-1992; Chairman, Particle Physics Division, Can. Assn. Physicists 1989; Councilor, Institute of Particle Physics 1986-89; Member, NSERC Visiting Committee to National Centre for Mathematical Research, Université de Montréal 1989.

ORGANIZATION OF SCHOOLS AND INSTITUTES

Organizer, BITS (Biology Inspired Theoretical Sciences) School and Workshop Series: I. *What can theoretical physicists do in biology?* NCU, Dec. 22-23, 1997; II. *1st Cross-Strait BITS Workshop*, NCU, Chungli, June 15-17, 1998; III. *3rd BITS Workshop*, National Center for Theo. Sci., Shinchu, Jan. 22-23, 1999; VI. *Advanced school on protein*, NCU and National Center for High Performance Computing, Shinchu, June 7-11, 1999; V. *2nd Cross-Strait BITS Workshop*, ITP, Beijing, May 15-19, 2000; VI. *3rd Cross-Strait BITS Workshop*, Donghua Univ., Hualian, Taiwan, July 8-12, 2002; VII. *4th Cross-Strait BITS Workshop*, Xiamen University, Xiamen, June 26-30, 2004; V. *5th Cross-Strait BITS Workshop*, DongHai Univ., Taichung, June, 2006.

Co-Coordinator, *Symposium in Memorial to C.S. Wu*, Taipei, 1997 Summer; Coordinator, *Second Cross-Strait Workshop on High and Medium Energy Physics*, Chungli 1997 Summer; Co-Coordinator, *Spring School on Particles and Fields*, Nantou, 1994 Spring; Director, *Workshop on Applied Mathematics*, Chalk River 1992; Director, *NATO Adv. Study Institute on Physics, Geometry and Topology*, Banff 1989; Co-Director, *Can. Assn. Phys. Summer Institute on Field Theory in Two Dimensions*, Edmonton 1988; Director, *NATO Adv. Res. Workshop on Super Field Theories*, Vancouver 1986; Co-Organizer, *Summer Institute on Quantum Field Theories*, London, Ont. 1985; Organizer, *Workshop on Kaluza-Klein Theories*, Chalk River 1983.

RESEARCH INTEREST

Before 1997: Many-body theory and nuclear structure (1968-76); Electromagnetic and weak interaction in the nucleus and medium energy physics (1974-83); Elementary particles and quantum field theory (1981-1993); Quantum groups, solvable models, statistical mechanics; (1988-1997); Complex systems (1996-1997).

After 1997: Computation biology and biophysics. In particular, comparative genomics, molecular evolution, genome growth and evolution, computer simulation of protein structure and function, studies of bio-electromagnetic signals and models for neural systems, systems biology.

PUBLICATIONS

See List of Publications at the URL:
[http://sansan.phy.ncu.edu.tw/∼hclee/pub/allpub.html]