

Curriculum Vitae of Professor Lou-Chuang Lee

Name

Lou-Chuang Lee 李羅權

Distinguished Visiting Chair of Institute of Earth Sciences, Academia Sinica

Address

Academia Sinica, Institute of Earth Sciences

128, Sec. 2, Academia Road, Nangang, Taipei 115, Taiwan

TEL : +886-2-2783-9910 ext. 1304 ; +886-911-596-880

FAX : +886-2-2783-9871

E-mail : louclee@earth.sinica.edu.tw

Degrees

Ph. D. Physics, California Institute of Technology, 1975

M. S. Physics, California Institute of Technology, 1972

B. S. Physics, National Taiwan University, 1969

Employment / Research Experience

1. Distinguished Research Fellow, Macau University of Science and Technology, 2017-2020.
2. Director, Institute of Earth Sciences, Academia Sinica, 2013-2017.
3. Distinguished Research Fellow, Institute of Earth Sciences, Academia Sinica, 2012-2017.
4. National Science Council, Minister, 2008 – 2012.
5. National Central University, President, 2006 – 2008.
6. National Central University, Institute of Space Science, Professor, 2006 – 2012.
7. National Applied Research Laboratories, Founding President, 2003 – 2006.
8. National Space Organization (NSPO), Chief Scientist, 1997 – 2001; Director, 2001 – 2004.
9. National Cheng Kung University, College of Science, Dean, 1995 – 2001.
10. University of Alaska, Geophysical Institute, Professor, 1978 – 1995.
11. University of Maryland, Institute for Physics Science and Technology, Visiting Assistant Professor, 1977 – 1978.
12. NASA/Goddard Space Flight Center, Research Associate, 1975 – 1977.
13. Visiting Professor / Scientist: Tokyo University (1986), University of Maryland (1985,1987), National Central University (1990), Princeton University (1991), China University of Science and Technology (1990), Nagoya University (1996).

HONORS AND AWARDS

1. Japan Toray Science Foundation Fellow, 1986.
2. Terris Moore Award in Space Physics, “For his work on auroral kilometric radiation”, Terris Moore, Boston and University of Alaska, 1987.
3. Outstanding Faculty Performance Award, University of Alaska, 1988.
4. **Fulbright Distinguished Scholar, Institute for Space Research, Dos Campos, Brazil, 1988.**
5. Honorary Professor, Center for Space Science and Application, Chinese Academy of Sciences (Beijing), 1990.
6. International Guest Professor, China University of Science and Technology, Hefei, China, 1990
7. Emil Usibelli Distinguished Research Award, University of Alaska, 1994.
8. Outstanding Scholar, Foundation of the Advancement of Outstanding Scholarship, Taiwan, 1996-2001.
9. Outstanding Research Achievement Award, National Science Council 1997-1998, 2001-2002.
10. **Outstanding Performance Award, “For his contribution to FORMOSAT-1 Project”, National Science Council, 1999.**
11. Fellow, Physical Society of the Republic of China, 2000.
12. **Academic Award, Ministry of Education, Taiwan, 2001.**
13. **Elected Academician, Academia Sinica, Taiwan, 2002.**
14. Li Kwoh Ting Chair Professor, National Central University, 2005, 2012.
15. Fellow, Meteorological Society of the Republic of China, 2005.
16. **The Presidential Science Prize (The highest honor in science in Taiwan), “For his outstanding contributions in space science and his implementation of two world-class space programs, FORMOSAT-2 and FORMOSAT-3”, 2005.**
17. **Elected Member, The World Academy of Sciences (TWAS), 2006.**
18. **Elected Member, International Academy of Astronautics (IAA), 2007.**
19. **Elected Member, International Academy of Engineering, Russian Academy of Engineering (IAE), 2011.**
20. **Achievement Medal (First Rank), “For promotion of science and technology in Taiwan during his tenure as Minister of National Science Council”, Executive Yuan, Taiwan, 2012.**
21. Distinguished Lecture, at Asia Oceania Geosciences Society (AOGS) Annual Meeting in Brisbane, 2013.
22. **Subramanyan Chandrasekhar Prize of Plasma Physics, Association of Asia-Pacific Physical Societies (AAPPS), 2017.**
23. **Elected Foreign Member of the US National Academy of Engineering (NAE), 2018.**
24. **Doctor of Science honoris causa, Macau University of Science and technology, 2022.**



Professor Lou-Chuang Lee

李羅權院士

Professor Lou-Chuang Lee received Ph.D. degree from the California Institute of Technology in 1975. He performed research and teaching at the NASA/Goddard Space Flight Center, University of Maryland, University of Alaska, National Cheng Kung University, National Central University and Academia Sinica. He served as Director of National Space Program Office, the first President of the National Applied Research Laboratories, the President of National Central University and the Minister of National Science Council.

Prof. Lee has published more than 300 scientific papers as well as three academic monographs. During his career, Prof. Lee developed several new theories to explain observed space phenomena. His major research achievements include: (a) Proposed in 1976 that the interstellar medium has a Kolmogorov turbulence spectrum based on scintillation data, (b) the electron cyclotron maser theory for the generation of auroral kilometric radiation, (c) the multiple X-line reconnection(MXR) model for magnetic flux transfer events, (d) the formation mechanism of solar prominences, (e) a new mechanism for solar coronal heating, and (f) the discovery of "gigantic jets" in the Earth's upper atmosphere.

Prof. Lee has received many awards, including the Fullbright Scholar Award, the Presidential Science Prize (The highest honor in science in Taiwan), Subramanyan Chandrasekhar Prize of Plasma Physics. Prof. Lee is an Academician of Academia Sinica(AS), elected member of The World Academy of Sciences (TWAS), and elected foreign member of the US National Academy of Engineering (NAE).