

Professor Lin-Ni Hau was born in Taiwan and received her PhD in space physics and astronomy in 1987 under the supervision of Prof. Richard Wolf (AGU fellow) working on the equilibrium and stability of Earth's magnetosphere. During 1987-1993 she was a research fellow at Dartmouth College working with Prof. Bengt Sonnerup (AGU fellow) on magnetopause physics, nonlinear waves and magnetohydrodynamic (MHD) theory. She joined NCU (National Central University) in 1993 and became a full professor in 1996 (with the record of shortest period from associate to full professorship). During 1999-2002 she was the director (chairman) of the graduate institute of space science and has been appointed as the dean/provost in charge of student affairs since 2010 (the first and only female dean at NCU). She was the first faculty who offered the courses of MHD and magnetospheric physics in Taiwan. In 2002 she founded the first satellite payload development laboratory in Taiwan which led to the first science payload made in Taiwan and successfully launched into space by the sounding rocket in 2004 and has greatly inspired the students' interest in space science. Prof. Hau has made many important contributions to the magnetospheric and space plasma researches and many of her works are the milestones to magnetospheric and space plasma physics. She is the leading/major author of 52 SCI journal papers. Her major achievements are on the equilibrium and dynamics of Earth's magnetosphere, kinetic and fluid theories of nonthermal space plasmas, magnetic reconnection, nonlinear waves/shocks and physics of thin current sheet etc. The importance and merit of her researches lie on the fact that in each problem and topic original ideas, theories, methodology and results based on the first principle physics and mathematics are proposed. The works are not only theoretically new but also have important applications to space and laboratory plasma experiments and observations. In fact the theories developed not only have extended but also significantly revised the prior or existing ones which have been widely cited since 1960 and can be found in many space and plasma physics textbooks. In particular, her work (Hau et al., JGR, 1989) on magnetospheric convection is the first quantitative model for the open magnetosphere and her work published in J. Geophys. Res., 1999 is the first paper presenting the direct evidence for magnetic reconnection and tearing-mode instability at the interface between solar wind and magnetosphere. Her works on the kinetic and fluid theories of nonthermal and anisotropic plasmas have predicted new types of plasma waves and instabilities as well as magnetic reconnection which have very important applications to space/astrophysical and laboratory plasmas. She was awarded for the distinguished research award twice by the NSC of Taiwan and was elected as the fellow of physical society of Taiwan in 2010 which is a highly prestigious honor in Taiwan. She also holds the chair professorship of NCU. Aside from academic contributions, she has served as the editor-in-chief and editor of several SCI journals and the committee member of several international and national committees. Prof. Hau has a great passion for science and humanity and is recognized as the female role model in Taiwan. In 2011 she was interviewed by President Ma of Taiwan featured as a film which has inspired general public to pursue for truth and beauty. She has always been grateful to the education and guidance received from Rice faculties and friends to nurture her to become a wonderful educator and scientist.

