

## Opening Plenary Address



Chennupati Jagadish AC  
*President of the Australian Academy of Science*  
*Australian National University*



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National  
University



Chennupati Jagadish AC is the President of the Australian Academy of Science and a Distinguished Professor of Physics at the Australian National University.

Jagadish is an acknowledged world leader in the research field of semiconductor optoelectronics. He has pioneered novel delta doping and wavelength-shifting processes in III-V compound semiconductors that have led to innovative quantum well, quantum wire and quantum dot lasers. These achievements have been predicated on a deep understanding of the underlying solid state physics including defects and diffusion processing. His work on quantum dots is particularly noteworthy: his group has established several world firsts in the growth of new structures by metal organic chemical vapour deposition coupled with novel processing that has led to several world records for device performance.

He is a Past President of IEEE Photonics Society, Past President of Australian Materials Research Society and Convener of Australian Nanotechnology Network. Jagadish is a Foreign Member of US National Academy of Engineering, a Fellow of the Australian Academy of Science, Australian Academy of Technological Sciences and Engineering, The World Academy of Sciences, US National Academy of Inventors, Indian National Science Academy, Indian National Academy of Engineering, Indian Academy of Sciences, Andhra Pradesh Akademi of Sciences, IEEE, APS, MRS, OSA, AVS, ECS, SPIE, AAAS, FEMA, APAM, IoP (UK), IET (UK), IoN (UK) and the AIP. He received many awards including IEEE Pioneer Award in Nanotechnology, IEEE Photonics Society Engineering Achievement Award, OSA Nick Holonyak Jr Award, ISCS Welker Award, IUMRS Somiya Award, UNESCO medal for his contributions to the development of nanoscience and nanotechnologies, IEEE EDS Education Award, AOS Beattie Steel Medal and Lyle medal from the Australian Academy of Science. He has received Australia's highest civilian honor, AC, Companion of the Order of Australia, as part of 2016 Australia day honors from the Governor General of Australia for his contributions to physics and engineering, in particular nanotechnology.

Jagadish and his wife Vidya have created an Endowment to support visiting students from developing countries to spend up to 3 months at ANU Physics to gain research experience and develop collaborative linkages.