

Prof. Dan Shechtman

Nobel Prize Laureate in Chemistry 2011



Born in Tel Aviv in 1941.

Married to Prof. Tzipora Shechtman, father of one son and three daughters.

After completing his doctorate studies at the Technion in Haifa, Israel, Danny Shechtman was an NRC fellow at the Aerospace Research Laboratories of Wright Patterson AFB, Ohio, where he performed research for three years.

In 1975 he joined the Department of Materials Engineering at Technion where he is currently a Distinguished Professor.

During 1981-2004 he was several times on Sabbatical at the Johns Hopkins University, (joint program with NBS-NIST). During this period he discovered by TEM the Icosahedral Phase which opened the new science of quasi-periodic crystals and performed research on other subjects.

As of 2004 he is also a Professor at MSE and Ames Lab, Iowa State University. His current research efforts center on developing strong and ductile magnesium alloys for a variety of applications.

Shechtman is a member of several Academies, including the US National Academy of Engineering and the Israel National Academy of Sciences. He is an Honorary Member of professional societies around the globe and was awarded many prizes including the Wolf Prize in Physics, the Gregori Aminoff Prize of the Royal Swedish Academy of Sciences, the EMRS award and the Nobel Prize in Chemistry 2011.

As of 1986 he teaches a Technological Entrepreneurship class at the Technion attended by hundreds of students every year. By now the class was given to about 10,000 engineers and scientists and over that period of time Israel has become a "startup Nation".

In 2014 he presented his candidacy for President of the State of Israel.

In parallel to his reach academic activity, Shechtman is devoting many efforts to scientific education for kindergarten children and he is participating in Israeli TV show for children "Science with Dan".

Prizes

- 2011 Nobel Prize in Chemistry
- 2008 European Materials Research Society (E-MRS) 25th Anniversary Award
- 2002 EMET Prize in Chemistry
- 2000 Muriel & David Jacknow Technion Award for Excellence in Teaching
- 2000 Gregori Aminoff Prize of the Royal Swedish Academy of Sciences.
- 1999 Wolf Prize in Physics
- 1998 Israel Prize in Physics
- 1993 Weizmann Science Award
- 1990 Rothschild Prize in Engineering
- 1988 New England Academic Award of the Technion
- 1988 International Award for New Materials of the American Physical Society
- 1986 Physics Award of the Friedenbergl Fund for the Advancement of Science and Education

Membership in Academies

- 2004 Elected member of the European Academy of Sciences.
- 2000 Elected member of the American National Academy of Engineering.
- 1996 Elected member of the Israel Academy of Sciences.

Honorary Membership in Professional Societies

- 2005 Elected Honorary Member of the Japan Institute of Metals
- 2000 Elected Honorary Member of the French Physical Society
- 1999 Elected Honorary Member of the Israel Crystallographic Association
- 1998 Elected Honorary Member of the Israel Society for Microscopy
- 1998 Elected Honorary Member of ISIS-Symmetry (International Society for Interdisciplinary sciences)
- 1997 Elected Honorary Member of MRSI (Materials Research Society of India)