

# SEMINAR

## ***"The Discovery of Quasi-Periodic Materials - the Role of TEM"***

Thursday 13 September, 2012  
11am – 12noon  
Engineering Lecture Theatre E3, Building 32

***Professor Dan Shechtman***

**2011 Nobel Laureate in Chemistry  
for the discovery of quasicrystals**



After receiving his doctorate for the study of fatigue properties of titanium alloys from the Technion in Haifa, Israel, Dan Shechtman was an NRC fellow at the Aerospace Research Laboratories of Wright Patterson AFB, Ohio, where he studied for three years the microstructure and physical metallurgy of titanium aluminides. 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 quasiperiodic 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, and deformation mechanisms in B2 intermetallics. Professor Shechtman is a member of several Academies, including the National Academy of Engineering, 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.

Convenors: Professor Joanne Etheridge, MCEM  
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*Visitors are most welcome: Please note that there is a designated Visitors Car Park (S2) clearly ground-marked by white paint and tickets, at a cost of \$4.50/hour for up to 3 hours, available from a dispensing machine. This high-rise car park is located on the following Clayton Campus Map, Ref. E3.*

[Printable version of the Clayton campus map \(pdf 833 kb\)](#)