

member of the European Academy of Sciences; and a fellow of the American Physical Society, the American Association for the Advancement of Science, the

Microscopy Society of America, and the Materials Research Society. He has received the S.T. Li Prize for Outstanding Contribution in Nanoscience and

Nanotechnology, the Burton Medal from the Microscopy Society of America, and the Purdy Award from the American Ceramic Society.

Mark E. Davis to give Kavli lecture on fighting cancer with nanoparticles

Mark E. Davis of the California Institute of Technology has received the Fred Kavli Distinguished Lectureship in Nanoscience. At the 2011 Materials Research Society Fall Meeting in Boston, he will present his lecture, "Fighting cancer with nanoparticle medicines—

The nanoscale matters!" The lecture is scheduled for Sunday, Nov. 27 at 7:00 p.m. in the Grand Ballroom of the Sheraton Hotel.

Nanoparticle medicines, or nanomedicines, have the potential to provide "game changing" ways to treat cancer. Davis will demonstrate how physical insights at the nanoscale allow for the development of nanoparticles that can function as designed to fight diseases

in animals and humans. The data from humans, he said, show how two independent nanoparticle cancer therapeutics have been translated from laboratory curiosities to experimental therapeutics in human clinical trials.

Davis is the Warren and Katharine Schlinger Professor of Chemical Engineering at the California Institute of Technology and a member of the Experimental Therapeutics Program of the Comprehensive Cancer Center at the City of Hope institution. He has over 375 scientific publications, two textbooks, and over 50 patents.

His research efforts involve materials synthesis in two general areas; namely, zeolites and other solids that can be used

for molecular recognition and catalysis, and polymers for the delivery of a broad range of therapeutics. He is the founder of Insert Therapeutics Inc., a company that focused on the use of cyclodextrin-containing polymers for drug delivery applications and Calando Pharmaceuticals, Inc., a company that created the first RNAi therapeutic to reach the clinic for treating cancer. He has been a member of the scientific advisory boards of Symyx and Alnylam.

Among Davis's honors are elections to the National Academy of Engineering (1997), the National Academy of Sciences (2006), and the Institute of Medicine (2011).

The Kavli Foundation supports scientific research, honors scientific achievement, and promotes public understanding of scientists and their work. Its particular focuses are astrophysics, nanoscience, and neuroscience.

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Location & Hours

Hynes Convention Center • Exhibit Hall (Level 2)

Monday, November 28 (Registration only)
1:00 pm – 4:00 pm

Tuesday, November 29
11:00 am – 5:30 pm

Wednesday, November 30
11:00 am – 5:00 pm

Thursday, December 1
10:00 am – 1:30 pm

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THANKS!

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Resodyn Acoustic Mixers, Inc. Booth 1112
www.resodynmixers.com
LabRAM; RAM5; RAM55

RHK Technology, Inc. Booth 603
www.rhk-tech.com
SPM Universal Controls; UHV STM; UHV AFM/STM

Rigaku Americas Corporation Booth 517
www.rigaku.com
X-ray Diffraction Systems; Small Angle X-ray Scattering Systems

Rigaku Innovative Technologies, Inc. Booth 1309
www.rigaku.com
Multilayer X-ray Optics; X-ray Monochromators; Microfocus X-ray Generators; X-ray CCD Cameras; Rotary Motion Feedthroughs

Rocky Mountain Vacuum Tech, Inc. Booth 323
www.rmvac.com
Vacuum Systems; Vacuum Components

RSC Publishing Booth 110
www.rsc.org/publishing
Journals; Books

SAGE Publications Booth 124
www.sagepub.com
Books; Journals

Scientific Computing & Modelling NV Booth 1122
www.scm.com
Chemistry Software; Molecular Software; Density Functional Theory

Seki Technontron USA Booth 801
www.sekicvdsolutions.com
Microwave Plasma CVD Systems; Hot Filament CVD Systems; Plasma CVD Systems

Semicore Equipment Inc. Booth 1211
www.semicore.com
Sputtering Systems; Evaporation Systems; Custom PVD Systems & Components

Shanghai Optics Inc. Booth 922
www.shanghai-optics.com
Deposition Equipment Processes & Materials; Materials & Chemicals; Vacuum Systems & Components

Solartron Analytical (AMETEK) Booth 917
www.solartronanalytical.com
ModuLab MTS; 1260 Impedance Analyzer; Cryostats & Furnaces

South Bay Technology, Inc. Booth 508
www.southbaytech.com
Ion Beam Sputter Deposition; Reactive Ion Etcher; Plasma Cleaner/Trimmer

SP Scientific Booth 908
www.spscientific.com/Companies/
FTS-Thermal.aspx

SPECS Surface Nano Analysis GmbH Booth 702
www.specs.com
PHOIBOS Energy Analyzer; SPM 150 Aarhus; JT-STM; FE-LEEM P90

SPEX SamplePrep LLC Booth 905
www.speksampleprep.com
Mixer/Mills; Freezer/Mills; X-Press

SPI Supplies Booth 1202
Division of Structure Probe, Inc.
www.2spi.com
Supplies for Electron Microscopy; Plasma Etching Systems; TEM Membrane Grid

Springer Booth 101
www.springer.com
Books; Journals; E-Books

STAIB Instruments, Inc. Booth 717
www.staibinstruments.com
RHEED; Spectrometers; Surface Analysis

Strem Chemicals, Inc. Booth 825
www.strem.com
Chemicals; Nanomaterials; MOCVD, CVD and ALD Precursors

Super Conductor Materials, Inc. Booth 618
www.scm-inc.com
Sputtering Targets; Evaporation Materials; Crucibles

SVT Associates, Inc. Booth 420
www.svta.com
Molecular Beam Epitaxy; Pulsed Laser Deposition; Atomic Layer Deposition

TA Instruments Booth 1101
www.tainstruments.com
DSC; TGA; Flash Diffusivity

Taylor & Francis-CRC Press Booth 104
www.taylorandfrancis.com
Books; Journals; Online Products

TCI America Booth 607
www.tciamerica.com
Fine Organic Chemicals; cGMP; Custom Synthesis

TDK-Lambda Americas Inc. Booth 805
www.us.tdk-lambda.com/hp
Genesys™ Programmable AC/DC Power Supplies

Ted Pella, Inc. Booth 516
www.tedpella.com
Vacuum Coaters; Calibration; Microscopy Sample Preparation & Supplies/Accessories

Tescan USA Inc. Booth 1104
www.tescan-usa.com
Electron Microscopes; Dual BeamSEM/FIB Microscopes; Time of Flight TOF SIMS

The Mellen Company, Inc. Booth 902
www.mellenccompany.com
Furnaces; Crystal Growth; Custom Designs

Thermionics Vacuum Products Booth 409
www.thermionics.com
Sample Handling; Evaporation Sources; Gate Valves

Thermo Scientific Booth 416
www.thermoscientific.com/materialscience
EDS, WDS, EBSD; Raman; XPS

Toho Technology Booth 705
www.tohotechnology.com
FLX-2320-S Thin Film Stress Measurement System; FP Series Stylus Profilers

Topcon Positioning Systems, Inc. Booth 1030
www.topconsem.com
Aquila Hybrid SEM/Optical microscope

TREK, INC. Booth 711
www.trekin.com
High-Voltage Amplifiers; Contacting/Noncontacting Electrostatic Voltmeters; Surface Charge/Resistance Measurement

Trion Technology, Inc. Booth 1006
www.triontech.com
Reactive Ion Etcher (RIE); Plasma Enhanced Chemical Vapor Deposition (PECVD); Stripping Systems

TSI Inc. Booth 921
www.tsi.com
Research Optical Particle Sizer; Water-Based Condensation Particle Counters; Counters & Sizers

UES, Inc. Booth 1117
www.ues.com
RoboMet.3D; Advanced Coatings for Die Casting

ULVAC Technologies, Inc. Booth 713
www.ulvac.com
Seebeck Coefficient; RTP Annealing Furnace; Thermal Diffusivity

USHIO America, Inc. Booth 1118
www.ushio.com
Electron Beam; Equipment; Custom Building

VAT, Inc. Booth 916
www.vatvalve.com
Vacuum Valves; Valves; Control Valves

VG Scienta, Inc. Booth 609
www.vgscienta.com
Surface Analysis Systems & Components; UHV Systems & Components; Valves; Sample Manipulators

Wafer World Inc. Booth 1020
www.waferworld.com
Silicon Wafers; Germanium Wafers; GaAs Wafers

Wiley Booth 114
www.wiley.com
Books; Journals; Databases

WITec Instruments Corp. Booth 613
www.witec-instruments.com
Confocal Raman Microscopy; Scanning Near-Field; Raman AFM

J.A. Woollam Company, Inc. Booth 1004
www.jawoollam.com
Spectroscopic Ellipsometers; Measurement Services

World Scientific Publishing Co. Booth 1121
www.worldscientific.com
Books; Journals

XEI Scientific, Inc. Booth 1028
www.evactron.com
De-contaminators for SEMs; De-contaminators for TEMs; Lower-Power RF Supply

XOS Booth 724
www.xos.com
Polycapillary Optics; Doubly-curved Crystal; X-Beam-X-ray Source with Optics

Yeagle Technology Inc. Booth 808
www.ytionline.com
Custom Vacuum Systems; On-site Service; Vacuum Components

Zeta Instruments Booth 1300
www.zeta-inst.com
3D Optical Profiler; 3D Microscope; Film Thickness Measurements

Zygo Corporation Booth 816
www.zygo.com
High Precision Measurement Systems; Optics; Optical Design/Assembly