



The Macrogram

Hartford Chapter of the ASM International
Build on our Strengths - Leverage our Diversity - Network to Succeed

MONTHLY MEETING – TOPIC

November 13, 2007

Topic: Where to with TEM

Speaker: Dr. C. Barry Carter
Professor & Head
Department of Chemical, Materials &
Biomolecular Engineering
University of Connecticut

**Directions: Chuck's Steak House & Margarita Grill
Mexican Cantina** - 1428 Stafford Rd., Storrs
Mansfield, CT, Ph: (860) 429-1900

Agenda:	Program Charges:
Cocktails: 5:30-6:30 PM	Regular Members - \$28.00
Dinner: 6:30-7:30 PM	Retirees - \$15.00
Program: 7:30-8:30 PM	Full Time Students - \$15.00

Entrée Selections: (Please specify)

- Prime Rib
- Grilled Chicken
- Bake Scrod

Technical Chairperson: Mark Aindow

Reservations: Call Shirley at Dynamic Metals (860) 583-3336 by noon November 8th. **Thanks!**

Abstract:



TEM has now been used for materials research for over 50 years and is, of course, the indispensable tool for understanding nanomaterials. We've actually been able to record images with near atomic resolution for more than 30 years. So why do we all want new TEMs? In this talk,

he'll discuss some of the advances that are now taking place and why these advances are changing how we look at materials, and not just at the nanoscale.

Bio:



Prof Carter has doctorates from Oxford and Cambridge in the UK. He spent 12 years on the faculty at Cornell University and 16 years as the 3M Heltzer Endowed Chair at the University of Minnesota. Earlier in his career, Dr. Carter served on the faculty of the Materials Science and Engineering department at Cornell University (1979-91).

He is an author of more than 270 journal papers and of the textbooks "Transmission Electron Microscopy: A Textbook for Materials Science" (1996 with Dave Williams), and "Ceramic Materials: Science and Engineering" (2007 with Grant Norton). He is also Editor-in-Chief of the Journal of Materials Science, and General Secretary of the International Federation of Societies for Microscopy.

He has received many honors throughout his career. He was named the 2004 Jubilee Professor by Chalmers University of Technology, Göteborg, Sweden. In 1998, he was awarded the Alexander von Humboldt Senior Award allowing him to join both the Max Planck Institute – Stuttgart and the Institute of Physical Chemistry and Electrochemistry at Hannover. He has received a number of other distinguished fellowships, including the Bernd Matthias Scholar from Los Alamos National Laboratory and a Guggenheim Fellowship. He is a Past President of the Microscopy Society of America. He is a Fellow of the American Ceramic Society.

Effective July 1, 2007, Dr. Carter became Head of the Department of Chemical, Materials and Biomolecular Engineering at UConn. "I look forward to contributing to the growing reputation of the University and to working with the students, staff, faculty and alumni of the CMBE Department in particular," commented Dr. Carter upon his selection.

The faculty of the Materials Science and Engineering Program at UConn are seeking the support and collaboration of materials intensive companies who are substantial employers of Materials Science and Engineering graduates to assist them in providing the margin of excellence in their undergraduate degree program. They want your support and collaboration in sponsoring a project for the two-semester senior capstone design project course, MMAT 287 and MMAT 288W. There are unique benefits for your company.

For more details go to:

www.asm-hartford.org/meetings/SeniorProjectBrochure.pdf

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