



# The Macrogram

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

## MONTHLY MEETING – TOPIC

**October 9, 2007 – ASM Trustee Visit**

**Topic: Technical Innovations on the Boeing 787**

**Speaker:** Dr. Dianne Chong, FASM

President (2007-2008)  
Vice-President (2006-2007)  
Trustee (2003-2006)  
Director of Material Processes & Technology  
The Boeing Company

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

### Agenda:

Cocktails: 5:30-6:30 PM  
Dinner: 6:30-7:30 PM  
Program: 7:30-8:30 PM

### Program Charges:

Regular Members - \$28.00  
Retirees - \$15.00  
Full Time Students - \$15.00

### Entrée Selections: (Please specify)

- Prime Rib
- Grilled Chicken
- Bake Scrod

**Technical Chairperson:** Sam Christy

**Reservations:** Call Shirley at Dynamic Metals (860) 583-3336 by noon October 4th. **Thanks!**

### Abstract:



In her presentation, Dr. Chong will describe some of the technical innovations on the 787. Examples of these will be shown. The business model and challenges will also be described.



### Bio:

Dr. Dianne Chong is Director of Boeing Commercial Airplanes' Material Processes and Technology. Chong was recently the IDS Director of Engineering Operations and Strategy. In this capacity, she is responsible for implementing and supporting manufacturing and quality technology for new and existing Commercial Airplanes' products and processes, and the supplier base.

Dr. Chong has held an impressively long list of leadership roles at Boeing and McDonald Douglass in Materials and Processing. Please visit the link to her biography from the meetings page on [www.asm-hartford.org](http://www.asm-hartford.org).

Dr. Chong received Bachelors degrees in both biology and psychology from the University of Illinois in 1971; Masters Degrees in both physiology (1975) and metallurgical engineering (1983) from the University of Illinois; In 1986, she completed her doctoral work by developing a steel-making technology derived from methods used by the ancient Chinese and received her Ph.D. from the University of Illinois. She completed an Executive Master of Manufacturing Management at Washington University in 1998.

Dr. Chong has also served as the St. Louis representative to Military Handbook 5 where she has chaired the Aerospace Users' Group and the titanium casting group. Dr. Chong is also a member of TMS, AIAA, ASM International, SAE, SME, SWE, Beta Gamma Sigma, and Tau Beta Pi. She was a 2001 graduate of Leadership America, a 1999 participant in the Greater Missouri Leadership Challenge, and 1997 recipient of the YWCA Special Leadership Award in Science & Technology. Dr. Chong has received Boeing Corporate Diversity Award (2003), Women of Color Technology All-Star (2002), the OCA Corporate Achievement Award (2002), and Diversity Change Agent (2005). Dr. Chong served on ASM International's Board of Trustees from 2003-2006, was selected as a Fellow of the ASM International and served as ASM's Vice President 2006-2007. Most recently, she was elected as 2007-2008 President of ASM International on September 17, 2007.

## ASM Elects Roger J. Fabian 2007-8 VP

**ASM Hartford Chair - 1975-6**



A long-time member of ASM International and the ASM Heat Treating Society (HTS), Roger Fabian is the Business Development Manager for Bodycote Thermal Processing, Berlin, CT. Fabian received his BS in metallurgical engineering from Rensselaer Polytechnic Institute in 1962, and his MBA from RPI in 1980.

He has participated in local chapter technical sessions and national ASM and HTS conferences, organizing sessions and presenting papers on vacuum heat treating, vacuum brazing, and other areas of heat treating and metal joining. Fabian currently is a Director-at-Large Industrial Liaison for the Center for Heat Treating Excellence (CHTE).

For the past two years, he has rallied CT HT Companies for the Higgins Wagon at the Hartford Chapter Golf Outing.



# The Macrogram

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## 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

<b>Agenda:</b>	<b>Program Charges:</b>
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.

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**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](http://www.asm-hartford.org/meetings/SeniorProjectBrochure.pdf)

**Contact:** Mark Aindow,  
Director, Materials Science and Engineering Program  
Department of Chemical, Materials and Biomolecular Engineering, Unit 3222  
University of Connecticut, Storrs, CT 06269  
Tel: +1 (860) 486-2644  
Email: [m.aindow@uconn.edu](mailto:m.aindow@uconn.edu)

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EXEC'S LETTER

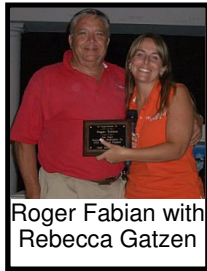
Our Annual Golf Outing Classic was held on September 13, 2007 at Gillette Ridge CC in Bloomfield. There were nearly 128 golfers from around the Connecticut area who participated in the event. The event started at 1:00 pm in bright sunny weather and ended at 6:30 pm while the sun was still out. It



Goodrich  
2007 Golf Outing  
Champions

was a picture perfect day in southern New England with a light breeze and everyone wanted to hold on to it. The evening started with a great dinner which included steak, chicken and pasta and light drinks. After the dinner, most of the people stayed to see whether they were the lucky winner of those great prizes "Dell Laptop

and a 20" LSD TV". Some settled with a bottle of great wine and others like me, nothing. Despite such minor disappointments, everyone enjoyed a great day and it was our committee's observation that everyone at Gillette's staff went out of their way to ensure a successful event. Most of the participants were so delighted that they would like to come back to the same golf course next year, so a date has been reserved at Gillette for September 2008. I am proud



Roger Fabian with  
Rebecca Gatzen

to announce that we are expecting a profit in the \$2500+ range and these proceeds like always will go to our scholarship and student outreach programs. On behalf of our executive committee members, I will take this opportunity to convey our many thanks to Ms. Rebecca Gatzen for coordinating and her team for volunteering to run the entire event. They spent many hours calling all of you for your participation, buying the raffle gifts, arranging them in a neat fashion at the golf course and making this outing a true professional event that everyone will remember for the rest of their life. Again, much thanks to all of you for your participation and generous contributions.

Our October meeting features a very informative talk about some of the technical innovations on the Boeing 787 by Dr. Dianne Chong, Director of Boeing Commercial Airplanes' Material Processes and Technology section. Dr. Chong has a long distinguished career in airframe manufacturing. She was recently elected 2007-2008 President of ASM International.

Coming up in November I'm pleased to announce that Dr. C. Barry Carter, Professor and Head of UCONN's Department of Chemical, Materials & Biomolecular Engineering will be giving a talk on some of the advances that are now taking place in Transmission Electron Microscopy and why these advances are changing how we look at materials.

I encourage you to take full advantage of the many benefits ASM has to offer. To begin with, I hope you've gained some insight from the AM&P® magazine and our Chapter's Macrogram, and that you've made some valuable contacts through your affiliation with the Hartford Chapter. I also hope you're making full use of ASM's and the Hartford Chapter's web sites. We look forward to your continued participation, year after year. That's why I'd like to hear your thoughts about the future of ASM Hartford – what we can do better in

terms of member services, what new aspects of our profession we should spotlight at our meetings, in our newsletter, and on our web site and how we should present the rewards of a materials engineering career to the next generation of young engineers.

Please feel free to drop me a line to share your thoughts on these matters. I'd be delighted to discuss ASM Hartford – present and future – with loyal members like you.

Thanks for your Support,

Sam Christy



Coffee Talk Speaker Gift

Coffee Talks

We encourage our Chapter Sustaining Members to briefly (8-12 minutes) tell our members about their products and services in a Coffee Talk.

Coffee Talks are given at ASM Hartford monthly meetings when appetizers are served, typically just after the networking hour (5:30-6:30 PM) and prior to dinner (6:45 PM).

Contact our Chapter Chairperson to give a Coffee Talk.

If you are not a Chapter Sustaining Member and wish to give a Coffee Talk, you can either sponsor one of our meetings or become a Chapter Sustaining Member by contacting our Chapter Secretary or Chairperson.

Professor Arthur J. McEvily, UConn, will talk on *Metallurgical Failures in History and Failures in Inspection Procedures*. Check [www.asm-ma.org](http://www.asm-ma.org) ASM Worcester Chapter for details on this meeting planned for the November 19 - Colonial Restaurant in Webster, MA.

Save  
September 10, 2008  
for the Annual Golf  
Outing  
Gillette Ridge CC  
Bloomfield, CT



2007 Most Honest Team

All proceeds go to our Scholarship and Student Outreach Programs



Visit the new UConn  
Materials Advantage Chapter's  
Web Site

[www.engr.uconn.edu/ucma](http://www.engr.uconn.edu/ucma)

## Fall 2007

## ASM HARTFORD

### 2007-2008 Executive Committee

<b>Chairperson</b>	Sam Christy	(860) 565-5985
<b>Secretary</b>	Jack Woodilla	(203) 374-7650
<b>Treasurer</b>	Joe Kubinski	(860) 745-5977
<b>Public Relations</b>	Harley Graime	(860) 550-7246
<b>Membership</b>	Jack Piela	(860) 872-9359
<b>University Affairs</b>	Mark Aindow	(860) 486-2644
<b>Student Affairs</b>	Rainer Hebert	(860) 486-3155
<b>Student Chapter</b>	Amber Black	(860) 550-3096
<b>Golf Outing</b>	Rebecca Gatzen	(860) 667-4403
<b>Member at Large</b>	Stu Weiss	(860) 731-6736
<b>Online Chair</b>	Arnie Grot	(860) 633-5849
<b>Outgoing Chair</b>	John Rugh	(860) 741-9388

### Sustaining Member Companies

Consider becoming a sustaining member. For information, please contact Jack Woodilla, Secretary.

BASF	MicroTech Optical Inc.
Bodycote Thermal Processing	Nerac
Consolidated Ceramic Products	Specialty Steel Treating Inc
Conval Corp	United Service Company
Deringer Ney Inc	University of Connecticut
Excel Technologies	Vitta Corp
Flame Treating & Engineering	
Fenn Manufacturing Co	Gillette Company
Grot Enterprises	Rathbone Precision Metals
Jacobs Vehicle Systems	The Stanley P Rockwell Co.
Industronics Service Co.	Timken Company
Metallurgical Services Intn'l	Torrington Company

*Due to cost of printing and mailing, ASM Hartford will publish just one issue of the Macrogram in the fall, one winter issue and one spring issue. Therefore, it is particular important that you bookmark the ASM Hartford web site (<http://www.asm-hartford.org/>) and check it regularly for updated information. We will continue to send out email notices to those on our distribution list prior to events.*

To receive an email notice of Hartford Chapter events, send an email to [web@asm-hartford.org](mailto:web@asm-hartford.org).



**Join ASM!**

- FREE Book when you join! (see available selection)
- FREE monthly magazine covering industry and society happenings
- FREE access to ASM Desk Editions Online
- FREE access to online membership directory for networking and information exchange
- Members-Only discounts on books, seminars, journals, self-study, conferences, and online subscriptions



The Materials Information Society

[www.asm-hartford.org](http://www.asm-hartford.org)

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