

Northeast Ohio Professional Section



Society of Women Engineers

ASPIRE • ADVANCE • ACHIEVE

Wednesday, April 23, 2008 @ 6:00pm

Guest Speaker: Dr. Dianne Chong

*The Boeing Company
Director, Material & Process Technology*

*ASM International - The Materials Information Society
President*

Presentation: Career Development

100th Bomb Group Restaurant – Waterbury Room

20920 Brookpark Road | Cleveland, Ohio 44135 | Phone: 216-267-1010
www.100thbgrestaurant.com

Please select your dinner choice:

(All entrees include salad, rolls, ice tea and coffee)

Chicken Jerusalem

Boneless breast of chicken prepared with sautéed mushrooms
and artichoke hearts in a chardonnay cream sauce

Crab Stuffed Portabella Mushroom

Roasted, marinated portabella mushroom filled with our crab stuffing

Garden Penne Alfredo

Penne pasta with broccoli, red peppers, green onions and mushrooms
tossed in our creamy homemade Alfredo sauce

\$20 for members and \$25 for guests

Cash or checks payable to NEOH SWE the day of the event

Reservations mandatory by April 16: Lisa Rimpf • Lisa.Rimpf@swe.org

One Professional Development Hour credit offered for Ohio licensed Professional Engineers

Dr. Dianne Chong, FASM President (2007-2008)



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.

In her previous position as Director of Strategic Operations and Business for IDS Engineering, she was the lead director to defining and implementing a solid strategy for all Boeing Engineering for both the enterprise and IDS engineering process councils which covered 45,000 engineers.

Prior to this Dianne was the Director of Material & Process Technology in Phantom Works at Boeing. In this job she managed approximately 200 engineers across the enterprise that are engaged in Research and Development of advanced materials and materials applications. She served as the technical leader for Material & Process in Phantom Works and the Seattle site leader for the Structural Technologies, Prototyping & Quality organization.

Prior to this Dr. Chong was the Department Head of three engineering departments at Boeing St. Louis: Materials, Processes, Standards & Producibility; Liaison Engineering; and Production/Process Engineering. She was responsible for the functional management of 225 engineers that are matrixed to program support, production, and research areas.

Dr. Chong was the Manager of Fabrication Processes in the Manufacturing Technology Processes organization. In that capacity she was responsible for the Equipment Engineers and Material, Process, and Producibility Engineers who support the Fabrication Centers and the Production Aircraft Programs (F/A-18C/D, F-15, AV-8B, T45TS, and C-17).

Dr. Chong has also served as the Team Leader of the Material & Product Form Engineering team in Production Aircraft Programs since June 1995. Her team provided support to the F-15, AV-8B, T45TS, C-17, MDHS, and DAC commercial programs. Their program activities included nondestructive inspection, failure analysis, specification generation and revision, material and process evaluation and selection, environmental assurance and hazardous materials assessment, fracture critical controls, casting/forging approvals, drawing review, supplier support, and quality investigations.

From 1993-1995, Dr. Chong was the team leader of the both the Advanced Metallic and NDE teams in the Advanced Materials & Structures organization

in Phantom Works. In this job she directed teams performing IRAD and CRAD programs related to low-cost metals processing, advanced materials, high performance aerospace structures, advanced assembly techniques and advanced NDE techniques.

From 1990-1993, Dr. Chong was a Staff Specialist in the Materials & Process group of the McDonnell Douglas Missile Systems Company. She managed independent research and development and contract programs involving low-cost metals processing, metal matrix composites, and high performance aerospace structures. Dr. Chong also supervised the MDMSC metallographic and testing laboratories. She performed failure analysis on advanced missile and space components. She was Program Manager of three DoD contracts dealing with semisolid metalworking of space parts, elimination of the casting factor in titanium, and high temperature missile airframe materials.

Dr. Chong joined McDonnell Douglas Astronautics in 1986 as a Lead Engineer in Materials & Process. Her first jobs included managing independent research and development and contract programs involving space and missile airframe structures. She helped establish and supervise the metallography laboratory. Dr. Chong also managed the Shuttle Student Involvement Project which was flown on the first shuttle after the Challenger disaster.

Dr. Chong received Bachelors degrees in both biology and psychology from the University of Illinois in 1971. She continued on at the University of Illinois and earned Masters degrees in both physiology (1975) and metallurgical engineering (1983). She utilized the knowledge from these two disciplines to develop porous titanium prostheses. In 1986, Dr. Chong 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). Most recently, Dr. Chong has been elected to ASM International's Board of Trustees and was selected as a Fellow of the ASM International.