



# ASM International Oak Ridge Chapter

*Yearbook for 2005-2006*

P.O. Box 4072  
Oak Ridge, TN 37831  
<http://www.discoveret.org/orcasm/>



***Oak Ridge Chapter Yearbook***  
***2005-2006***  
***Volume 47 since 1947***

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# ORCASM Committee Members

## 2005/06 Executive Committee

Chair.....	<b>Doug Blom</b>
Vice Chair & Program Chair.....	<b>Christina Hoffman</b>
Treasurer.....	<b>Miladin Radovic</b>
Secretary.....	<b>James Hemrick</b>
Education Chair.....	<b>Chaitanya Narula</b>
Public Relations Chair.....	<b>Ed Kintzel</b>
Membership Development & Records Chair.....	<b>Michael Lance</b>
Awards Chair.....	<b>Michael Pershing</b>
Long-Range Planning Chair.....	<b>Nidia Gallego</b>
Student Affairs Chair.....	<b>Claudia Rawn</b>
Meeting Arrangements Chair.....	<b>Beth Matlock</b>
Meeting Registration Chair.....	<b>Melanie Moses</b>
Web Site Chair.....	<b>Robert D. Carneim</b>
Industry Night Chair.....	<b>Vinod Sikka, FASM</b>

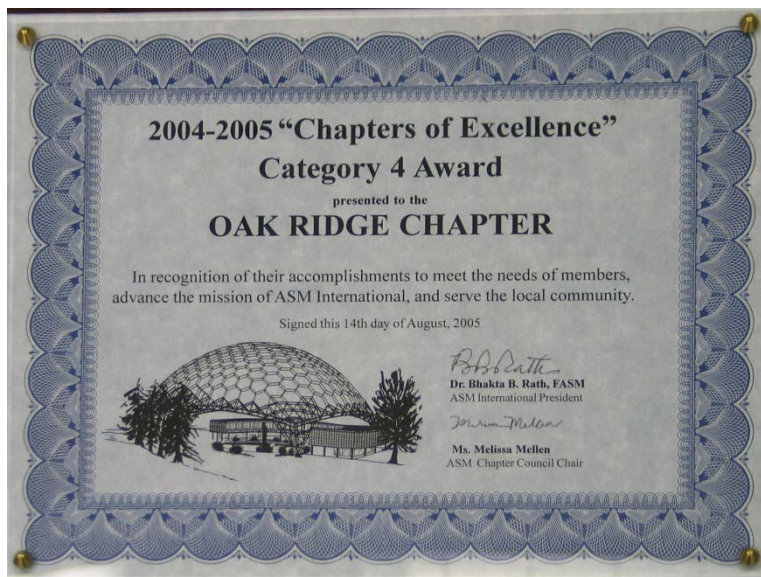
## 2005/06 Student Chapter Officers

Chair.....	<b>Elizabeth Barker</b>
Vice Chair.....	<b>Ryan Rucker</b>
Treasurer.....	<b>Kathy Achtley</b>
Secretary.....	<b>Kathy Achtley</b>
Faculty Advisor.....	<b>Claudia Rawn</b>

# ASM Leadership Days

Oak Ridge Chapter, 2005-2006

Claudia Rawn attended ASM Leadership Days as a Chapter Council Member. The Oak Ridge Chapter won the Five Star award and Chapter of Excellence for their category.



# The 3rd Annual Oak Ridge Chapter of ASM Picnic

When: Friday July 26, 2005 starting at 4:30 p.m.

Where: **University of Tennessee Gardens**

## Directions to the UT Gardens

From I40 in Knoxville take exit #386B: Alcoa Hwy 129, Airport, Smoky Mts. Go south on Alcoa Hwy to exit for UT Hwy 156, Neyland Drive. Turn left at exit light. Go east on Neyland Drive to 2nd light. Turn left into Agriculture Campus. Turn right at light to enter Parking Lot 66 which is across from entrance to UT Gardens.



This picnic is for ASM members, staff and students of the Metals and Ceramics Division, and the Department of Materials Science and Engineering, the the '05 Materials Campers, and their families.

Back Yard burgers will be catering so please let us know by Monday August 22nd if you plan to attend.

Bring a dessert to share!



## 3rd Annual Picnic at UT Gardens

- Over 75 people attended
- Ray Bellamy and the Muleskinners performed



# ASM Technical Program Overview



**Oak Ridge  
Chapter**

## **Technical Program**

- **Fellows Night - 2 new Fellows**
  - Jeffrey Christian – Zero Energy Housing
- **Family and Guest Night – Joint with KMA**
  - Stanley Mertzman - Spirit and Opportunity on Mars 2003-2005 with an Emphasis on X-Ray Chemical Analysis.
- **Student Night - Joint with SPE**
  - Poster contest



**Oak Ridge  
Chapter**

## **Technical Program**

- **Past Chairs Night**
  - Linda Horton – The Center for Nanophase Materials Sciences- ORNL's Newest User Facility
- **National Involvement Night**
  - Michel Barsoum – The Mystery of the Great Pyramids of Egypt Solved and Re-solved
- **Awards Night and TEC Plant Tour**

OAK RIDGE CHAPTER OF ASM INTERNATIONAL  
AND THE  
SMOKY MOUNTAIN SECTION  
OF THE  
SOCIETY OF PLASTIC ENGINEERS

PRESENTS

# STUDENT POSTER COMPETITION

## AGENDA

POSTER VIEWING AND JUDGING: 5:00 PM  
DINNER: 6:30 PM  
POSTER AWARDS AND SCHOLARSHIP PRESENTATIONS: 7:30 PM



SUPPORT THE EFFORTS  
OF FUTURE SCIENTISTS  
AS THEY DISPLAY THE  
RESULTS OF THEIR  
RESEARCH



## REGISTRATION

- COST: \$20 (FREE FOR STUDENTS WHO RSVP BY MONDAY BEFORE THE MEETING, \$10 OTHERWISE)
- RSVP BY MONDAY NOVEMBER 14 AT THE WEBSITE:  
[WWW.KORRNET.ORG/ORCASM](http://WWW.KORRNET.ORG/ORCASM)  
OR CONTACT  
MELANIE MOSES  
(865) 574-5977 [MOSESMJ@ORNL.GOV](mailto:MOSESMJ@ORNL.GOV)  
LOCATION INFORMATION: [HTTP://WWW.UTK.EDU/MAPS/](http://WWW.UTK.EDU/MAPS/)

THURSDAY NOVEMBER 17, 2005  
VOLUNTEER BALLROOM AT THE UNIVERSITY CENTER

THE UNIVERSITY of TENNESSEE

# ASM Student Poster Night

Oak Ridge Chapter,  
11/17/2005

## Poster Winners

- Sujing Xie – 1<sup>st</sup> place
- Rejanah Steward – 2<sup>nd</sup> place
- Wenhio Jiang – 3<sup>rd</sup> place
- Chairperson's Award – Daniel Passmore



## Scholarships

- Graduate Student Scholarships
  - Libby Barker - \$500
  - Rejanah Steward - \$250
- Undergraduate scholarships
  - Michael Koehler - \$500
  - Emily Sheats - \$250
- Travel awards to Fall MS & T meeting

# ASM Past Chairperson Night



Oak Ridge Chapter  
of  
ASM International  
presents



Dr. Linda Horton

"The Center for Nanophase Materials Sciences—ORNL's Newest User Facility"

## ABSTRACT

The Center for Nanophase Materials Sciences is ORNL's newest user facility. Adjacent to the Spallation Neutron Source, the CNMS is one of 5 nanoscience user facilities being built by the Department of Energy. Focused on both nanoscience and nanotechnology, the CNMS will attract users from across the nation to engage in research to understand phenomena that control the properties of nanomaterials. Equipment in the CNMS will focus on synthesis and characterization of these materials. One of the unique features of the facility is a 10,000 sq ft nanofabrication clean room facility. CNMS will also integrate theory and modeling with the experimental program, a critical aspect of the research. The presentation will discuss the new facility, equipment, science, initial user activities, and the potential impacts of nanoscience on technology.

## Rothchild's

8807 Kingston Pike  
(865) 690-0103

Thursday January 19<sup>th</sup>

## Schedule

5:30 pm- Social Hour  
6:30 pm- Dinner  
7:30 pm- Talk

## Registration

- Cost: \$20 (free for students who RSVP by noon on Friday before the meeting, \$10 otherwise)
- RSVP by noon on Friday January 13<sup>th</sup> at the website:  
<http://www.discoveret.org/orcasm/>  
or contact:  
Melanie Moses  
(865) 574-5977 mosesmj@ornl.gov

## Biography

With a B.S. in Mathematics and Physics from Grove City College, Pennsylvania and a Ph. D. and M. S. in Materials Science from the University of Virginia, Dr. Horton is the Director for the Center for Nanophase Materials Sciences (CNMS), one of the five new Department of Energy (DOE) nanoscale science research centers. CNMS is a national user facility in nanoscience and nanotechnology. She is also Program Director for the Basic Energy Sciences (BES) Materials and Engineering Physics Program for Oak Ridge National Laboratory (ORNL). This program includes basic theoretical studies for materials research; electron microscopy research, including operation of the Shared Research Equipment user program; and research focused on understanding of the synthesis and properties for intermetallics, advanced ceramics, and nanoscale materials systems.

\*\*NOTE: To save chapter costs, this will be the FINAL paper flyer mailed. All further chapter meeting notifications will be by electronic mail unless notifying Edward Kintzel at [kintzelej@ornl.gov](mailto:kintzelej@ornl.gov) (865) 241-7385 by January 31, 2006.

**OAK RIDGE CHAPTER OF ASM INTERNATIONAL  
AND  
THE HIGH TEMPERATURE MATERIALS LABORATORY USER CENTER  
AT  
OAK RIDGE NATIONAL LABORATORY  
PRESENT**

# INDUSTRY NIGHT

**HOST: DR. VINOD K. SIKKA**  
MANAGER, RESEARCH & TECHNOLOGY DEVELOPMENT  
OAK RIDGE NATIONAL LABORATORY

**EMCEE: COLVIN IDOL**  
FORMERLY WITH PBS IN KNOXVILLE, TN

### INDUSTRY PARTICIPANTS

ACUPOWDER TN, LLC GREENBACK, TN	MATTEC, LLC KNOXVILLE, TN
AIRGAS MID AMERICA KNOXVILLE, TN	MMPACT, INC. OAK RIDGE, TN
ALSTOM POWER INC. CHATTANOOGA, TN	MORRIS WOOD TOOL CO. INC. MORRISTOWN, TN
APPLIED THERMAL COATINGS CHATTANOOGA, TN	NEOPATENTS RALEIGH, NC
BATTELLE MEMORIAL INST. COLUMBUS, OH	T & D TOOL SERVICES INC DICKSON, TN
BUEHLER LTD. LAKE BLUFF, IL	TEC KNOXVILLE, TN
CANBERRA OAK RIDGE, TN	TECH. TRANS. & ECON. DEVEL. ORNL
DELP & ASSOCIATES, LLC COLUMBUS, OH	TENN. DEPT. OF ECON. & COMM. DEVEL. NASHVILLE, TN
DYNAMIC IMAGING, LLC BRENTWOOD, TN	UNIVERSITY OF TENNESSEE KNOXVILLE, TN
MANUFACTURING SCIENCES CORP. OAK RIDGE, TN	WALFORD TECHNOLOGIES OAK RIDGE, TN
MATERIALS AND CHEM. LAB., INC. OAK RIDGE, TN	WASHINGTON GROUP INTERNATIONAL OAK RIDGE, TN



### AGENDA

3:00 PM	REGISTRATION AND BOOTH SETUP
4:00 PM	SOCIAL HOUR & INTERACTIVE SESSION
6:00 PM	DINNER
7:30 PM	COMPANY PRESENTATIONS
9:00 PM	DOOR PRIZES
9:15 PM	ADJOURN

### LOCATION & REGISTRATION

**THURSDAY, FEBRUARY 23<sup>RD</sup>**

OAK RIDGE MALL (CROWN CENTER)  
333 E. MAIN ST.  
OAK RIDGE, TN 37830

- COST: \$25 (FREE FOR STUDENTS WHO RSVP BY NOON ON FRIDAY BEFORE THE MEETING, \$10 OTHERWISE)

- RSVP BY NOON ON FRIDAY FEBRUARY 17<sup>TH</sup> AT THE WEBSITE:

[HTTP://WWW.DISCOVERET.ORG/ORCASM/](http://www.discoveret.org/orcasm/)

OR CONTACT:

MELANIE MOSES  
(865) 574-5977 MOSESMJ@ORNL.GOV



# ASM National Involvement Night

Oak Ridge Chapter,  
04/20/2006

## The Mystery of the Great Pyramids of Egypt, Solved and Re-solved

**Michel Barsoum**  
Department of Materials Science and Engineering  
Drexel University, Philadelphia, PA 19104

For 5000 years the mystery of how the Great Pyramids of Giza were built has endured. How did the Ancient Egyptians pull 70 ton granite slabs up an earthen ramp - without the benefit of wheels - 2/3 up the Great Pyramid? Antigravity machines? UFO's? How did they carve granite, with pure Cu - not brass - but pure Cu? Solid solution softening? Mystical Pyramid Power? How did they, in 23 short years, carve the millions of limestone blocks - enough blocks Napoleon's engineers told him to build a 10 ft high by 1 ft deep wall around the entire country of France - and haul them up the Pyramids at the rate of roughly one every six - not a typo - minutes. Caterpillar? Mack trucks? Not only that, but also have some of the blocks fit so well together that up to today a playing card cannot be inserted between some of them. Lasers? Diamond cutting tools? Surprisingly, this long-standing mystery was solved by a French material scientist in the Eighties; even more surprisingly, the solution is elegant, brilliant and quite simple indeed. In this talk I will present conclusive scientific evidence that the solution proposed, over 20 years ago, is indeed the correct one. The historical, archeological and technological implications to today's world are truly profound.



### **Bio Sketch**

Prof. Michel Barsoum, a Distinguished Professor at Drexel University, received his B.Sc. in Materials Engineering from the American University in Cairo, Egypt in 1977, his M.S. from University of Missouri-Rolla, Rolla, MO, in 1980, and his Ph.D. in Ceramics from the Department of Materials Science and Engineering at the MIT in 1985. Dr. Barsoum's current research interests, among others, focus on developing and characterizing ceramic-based materials for high temperature applications. Dr. Barsoum and his research group were the first to fabricate and fully characterize an important new class of machinable ternary carbides and nitrides, the so-called MAX phases. Since 1996, Dr. Barsoum and his collaborators have published over 120 refereed papers on these ternary carbides and nitrides alone including ones in Nature and Science. He is the author of the textbook, Fundamentals of Ceramics, (Institute of Physics, 2003). Dr. Barsoum has authored or co-authored over 180 publications, has 9 US patents awarded and 5 pending. In 2000 he was awarded a Humboldt-Max Planck Research Award for Senior US Research Scientists and spent his sabbatical year at the Max Planck Institute in Stuttgart, Germany.



# Materials Camp 2006

Sponsored by The Oak Ridge Chapter of ASM International  
The University of Tennessee Department of Materials Science and Engineering  
University of Tennessee Materials Student Advantage Chapter



Materials Camp is a **FREE** week-long opportunity for a **LIMITED** number of high school students to learn about materials science through hands-on experiments at UT-Knoxville and ORNL. Students will work with the actual materials from the **SPACE SHUTTLE COLUMBIA**, testing the materials and finding out why they behave the way that they do. These experiments will be led by some of the top scientists in their fields, including professors from the UT Department of Materials Science and Engineering, research staff from ORNL and Y-12 National Security Complex.

## Registration

<http://www.discoveret.org/orcasm/>

## Camp Schedule

June 5-9, 2006

### Students will test and study:

Components from the **Space Shuttle Columbia** & learn failure analysis techniques and reasoning application.

### Using:

**Optical Microscopy** and **Scanning electron microscope** with **energy dispersive X-ray spectrometers.**

Mon - Wed, All Day: UT-Knoxville  
Thurs, 9 am to 5 pm: Tour/Work at ORNL  
Fri, All Day: End of Camp  
Tentative: commencement dinner Friday

Contact: Claudia Rawn (865-574-3184) or Steve Dekanich (865-574-8621) for information.

## 2006 Chapter Financial Report

CHAPTER: Oak Ridge, Tennessee

DATE: February 14, 2006

Financial Report for period beginning January 1, ending December 31 of the previous year.

	Amount Budgeted	Total Dollars Received or (Spent)	Annual Budget Gain or (Loss)
<b>RECEIPTS</b>			
General Office	\$0.00	\$0.00	\$0.00
Student Affairs	\$0.00	\$0.00	\$0.00
Membership Fees	\$6,100.00	\$12,436.94	\$6,336.94
Meetings	\$4,600.00	\$3,680.00	(\$920.00)
Yearbook	\$1,000.00	\$0.00	\$1000.00
Education	\$9,800.00	\$5,330.00	(\$4,470.00)
Conferences	\$0.00	\$0.00	\$0.00
Special Functions	\$5,300.00	\$0.00	(\$5,300.00)
Interest and Dividends	\$500.00	\$818.10	\$318.10
<b>TOTAL</b>	<b>\$27,300.00</b>	<b>\$22,265.04</b>	<b>(\$5,304.96)</b>
<b>DISBURSEMENTS</b>			
General Office	(\$1,500.00)	(\$2,304.30)	(\$804.30)
Student Affairs	(\$1,500.00)	(\$2,500.00)	(\$1,000.00)
Membership Fees	\$0.00	(\$2,970.00)	(\$2,970.00)
Meetings	(\$7,600.00)	(\$8,050.68)	(\$450.68)
Yearbook	(\$1,800.00)	\$0.00	\$1,800.00
Education	(\$6,600.00)	(\$5,364.06)	\$1,235.94
Conferences	(\$1,400.00)	(\$382.40)	\$1,037.60
Special Functions	(\$6,800.00)	(\$2,012.27)	\$4,787.73
Interest and Dividends	\$0.00	\$0.00	\$0.00
<b>TOTAL</b>	<b>(\$27,200.00)</b>	<b>(\$23,563.71)</b>	<b>\$3,636.29</b>
<b>NET</b>	<b>\$100.00</b>	<b>(\$1298.67)</b>	<b>(\$1398.67)</b>

<b>BALANCE STATEMENT OF ASSETS</b>					
	Beginning Balance	Total Receipts Increase	Subtotal	Total Expenses (Decrease)	Total Balance on Hand
Checking Account	\$7,141.59	\$21,454.79	\$28,596.38	\$23,563.71	\$5,032.67
Savings Account	N/A	N/A	N/A	N/A	N/A
Cost of Investments	N/A	N/A	N/A	N/A	N/A
Current Value of Investments	\$23,791.07	\$810.25	\$23,791.59	\$0.00	\$23,791.59
<b>TOTAL ASSETS:</b>					<b>\$28,824.26</b>

# ASM Award Presentations

Oak Ridge Chapter,  
2005-2006

## **Congratulations!**

### **Graduate Student paper award**

Yulin Yu – “Effects of Temperature and Hold Time on Creep-Fatigue Crack-Growth Behavior of HAYNES 230 Alloy”

### **5 year awards**

Gerald Uhl  
Russell Hallman

### **15 year awards**

Donnie Sexton  
Gang Zhou  
Weiju Ren

### **25 year awards**

Daniel Lees  
Joachim Schneibel  
William Kovacich  
Ashok Choudhury

### **Life Members**

Everett Bloom  
Glenn Northcutt  
Ken Liu

### **Claudette McKamey Service Award**

Robert Swindeman

For outstanding and tireless service to both ASM International and to the Oak Ridge Chapter in leadership, professional activities and enabling honors and awards for other members for more than 40 years.

## Obituaries



**Dr. Raymond A. (Ray) Buchanan** – age 62 of Knoxville, died Sunday evening, January 15, 2006 at his home. Ray was a member of Central United Methodist Church in Lenoir City. He was a Professor and Head of the Department of Materials Science and Engineering, the University of Tennessee–Knoxville. He received his BE, MS, and PhD degrees from Vanderbilt University. His first teaching position was at the University of Alabama–Birmingham. He joined the faculty of the University of Tennessee in 1985. He was recipient of numerous awards for his teaching and research. Among these were the UT Chancellor’s Award for Research and Creative Achievement, the College of Engineering’s Brooks Distinguished Professor Award, the Allen and Hoshall Engineering Faculty Award, the Robert M. Condra Professorship, and several Outstanding Teacher Awards. Ray’s expertise was in the areas of corrosion, wear, fatigue, and biomaterials. He had numerous publications in these areas including a textbook co-authored with E. E. Stansbury entitled *Fundamentals of Electrochemical Corrosion*. Ray was an active member of several professional societies, and he was a fellow of ASM International (formerly American Society for Metals) and a former chairman of the Oak Ridge Chapter of ASM International. He was recently co-director of a major National Science Foundation (NSF) Integrative Graduate Education and Traineeship Program (IGERT) focused on materials lifetime science and engineering, and he was currently a co-director of a NSF International Materials Institute Program entitled *Advanced Neutron Scattering Network for Education and Research with a Focus on Mechanical Behavior*. As evidenced by all of his awards and accomplishments, Ray loved working with students at both the graduate and undergraduate levels, and he was highly respected by all of the department’s faculty, staff and students. Ray loved nature, was an avid Tennessee Football fan and loved to travel. He was preceded in death by: his son, Michael David Buchanan; father, Raymond B. Buchanan; sister, Sherry Kay Kline. He is survived by: his beloved wife, Billie Miller Buchanan; daughter and son-in-law, Karen and Scott Reeves of Atlanta, GA; adoring granddaughters, Katie Reeves, Abby Reeves, Brianna Smith and Hope Buchanan; mother, Katherine Buchanan of Madison, TN; brother, Ronald B. Buchanan of Nashville; sister, Bunny Buchanan Norris of Madison; several nieces and nephews.

**Dr. William Theodore Becker** – died peacefully at his home in Knoxville on January 5, 2006. He was born January 24, 1936 in Champaign, Illinois where he attended the academically acclaimed University High School. He received his PhD in Metallurgical Engineering from the University of Illinois. He became an authority in the fields of Mechanical Properties and Failure Analysis of metals. Bill taught at the University of Tennessee for thirty-five years, recently retiring from the Department of Materials Science and Engineering. Bill had a reputation for demanding rigorous academic performance from his students. His professional contributions included extensive service to ASM International (formerly American Society of Metals.) He was co-editor of the *ASM Handbook Failure Analysis and Prevention*, co-chair of the Failure Analysis Committee, and member of the review board of *Practical Failure Analysis*. He also served as Faculty Sponsor of the Student Chapter of ASM at the University of Tennessee–

Knoxville for several years. His twenty-eight years of teaching for ASM were recognized with awards for distinguished instruction and service. Bill's expertise was sought by federal and military agencies, insurance companies, and several legal and industrial firms for whom he served as a consultant. He was a member of Alpha Sigma Mu honorary professional fraternity. His keen love of nature led him in earlier years to enjoy fishing, hiking, camping, and mountain climbing. He enjoyed folk music and played guitar, banjo, and dulcimer. His extensive collection of folk recordings was recently donated to the East Tennessee State University Library. He was an avid model railroader. Bill served as an officer in the National Model Railroad Association for several years. He was a driving force in the establishment of the NMRA's Kalenbach Memorial Library in Chattanooga, TN. Bill received the organization's President's Award in 1980 and also became an Honorary Life Member. He was preceded in death by his first wife, Carol Peternell. He is survived by his wife, Margaret "Peg" Schulte Becker; daughter, Meghan Rae Becker and husband Jean Francois Beltra of Carry Le Rouet, France; son, Willem Matthew Becker of Fort Collins, Colorado; step-daughters, Meg Mania of Olympia, Washington, Elizabeth M. Greaves and husband Edmund Greaves and their children, Robin, Mark and Alexander of Brown Deer, Wisconsin.

## Past Chapter Chairpersons

R. W. Coyle (1947/48)	Arnold P. Litman ('66/67)	W. R. (Bill) Corwin ('85/86)
L. K. Jetter ('48/49)	Les E. Dotts ('67/68)	Martin Grossbeck ('86/87)
E. E. (Gene) Stansbury ('49/50)	W. R. (Bill) Martin ('68/69)	Pete Angelini ('87/88)
J. R. McGuffey ('50/51)	Joe E. Spruiell ('69/70)	Linda L. Horton ('88/89)
E. C. Miller ('51/52)	Ralph A. Smith ('70/71)	Peter F. Tortorelli ('89/90)
W. T. Carey ('52/53)	John D. Sease ('71/72)	Tom H. Thrasher ('90/91)
W. D. (Bill) Manly ('53/54)	R. L. (Dick) Philippone ('72/73)	Ray A. Buchanan ('91/92)
Pete Patriarca ('54/55)	Jerry L. Cadden ('73/74)	Jim M. Williams ('92/93)
M. Schussler,	A. C. Schaffhouser ('74/75)	Kathi Alexander ('93/94)
W. J. Fretague ('55/56)	John W. Koger ('75/76)	Matthew J. Marsicek ('94/95)
Donald Douglas ('56/57)	W. B. (Bill) Snyder ('76/77)	Claudette G. McKamey ('95/96)
W. O. (Bill) Harms ('57/58)	Nick C. Jessen ('77/78)	Eugene L. Bird ('96/97)
W. S. (Bill) Dritt ('58/59)	John A. Iacovino ('78/79)	Glenn R. Romanoski ('97/98)
Henry Inouye ('59/60)	Everett E. Bloom ('79/80)	Srinath Viswanathan ('98/99)
E. E. (Gene) Hoffman ('60/61)	W. G. (Glenn) Northcutt ('80/81)	Cathy Swindeman (1999/2000)
Dave L. McElroy ('61/62)	Lou K. Mansur ('81/82)	Roland Seals (2000/01)
Al E. Goldman ('62/63)	Joe A. Carpenter ('82/83)	E. Andrew Payzant ('01/02)
Jim L. Scott ('63/64)	Mel M. Martin ('83/84)	Ian M. Anderson ('02/03)
Jack H. DeVan ('64/65)	George Copland ('84/85)	Claudia J. Rawn ('03/04)
Gerry Slaughter ('65/66)		Nidia C. Gallego ('04/05)