



### Notes from the Chair

Welcome to the annual election edition of the MESD newsletter. The AIChE is a volunteer organization that relies heavily on your efforts to make it successful. This year we have an excellent group of candidates for the open MESD officer positions, two directors and one second vice chair, and I would like to thank them all for their willingness to serve the Division. It is important that you exercise your privilege as a member of MESD by casting your votes according to the enclosed directions. MESD continues to be one of the most active divisions in the AIChE and serves well the recent interdisciplinary directions established by the Institute.

Thanks to Brian Mitchell's efforts and organizational skills, we have an exciting program to look forward to for the November meeting. Even if you are not a candidate, I encourage you to actively participate by attending the Division's business meeting on Tuesday afternoon, one of the area programming

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meetings on Tuesday evening and the overall 2007 programming meeting on Wednesday morning. The Division will host a reception during the Monday poster session and I look forward to seeing you there.

Jeff Koberstein

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MESD Chair

The polls for MESD elections will be open from:  
September 22<sup>nd</sup>-October 16<sup>th</sup>

To vote for candidates use the following web site with the division pass code for login "MES":

[www.aiche-xtranet.org/divisions/](http://www.aiche-xtranet.org/divisions/)

### 2006 Stine Award Winner Biographical Summary: Prof. Jeffrey T. Koberstein

Dr. Jeffrey T. Koberstein received a Bachelor's degree in Chemical Engineering from the University of Wisconsin, and a Doctorate in Chemical Engineering from the University of Massachusetts in 1979. After a year of postdoctoral research at the Centre de Recherches sur les Macromolecules in Strasbourg, France, he joined the Chemical Engineering faculty at Princeton University. From 1986-1999 he was a member of the Polymer Program within the Department of Chemical Engineering and Institute of Materials Science at the University of Connecticut. He was named Distinguished Professor of Engineering at Connecticut in 1998, one of the first two professors in the Engineering School to hold that title. In 2000 he joined the faculty of Chemical Engineering at Columbia University and served as chair until 2005. In 2003 he was appointed as the Percy K. and Vida L. W. Hudson Professor of Chemical Engineering.

Prof. Koberstein was co-recipient of the 1984 Arthur K. Doolittle Award of the American Chemical Society and received the 1990 American Cyanamid Academic Award in recognition of his contributions to polymer surface science; the latter award recognizes excellence in the science and art of chemical synthesis, and in training young people in its practice. In 1992, he was elected as a fellow to the American Physical Society, and in 1996 served as Chair of the Society's Division of High Polymer Physics. Current research interests include the synthesis and study of functional polymers, ultrathin ceramic and nanoparticle composite films, the modification and patterning of functional polymer surfaces, surface modification of nanoparticles and the development of smart polymer surfaces for biomaterial applications.

**The ELECTION SLATE: FALL 2006****Candidates for Position of Second Vice-Chair (vote for one):**

(i) Donald G. Baird

(ii) Cliff Henderson

(iii) Balaji Narashimhan

**Dr Donald G. Baird** received his B.S. and M.S. degrees from Michigan State University (where he was All Big Ten and an Academic All-American in football) and his PhD from the University of Wisconsin-Madison. He was employed as a research chemical engineer with Monsanto in Pensacola, FL from 1974-1978. In 1978 he joined the faculty of Virginia Tech where he is presently the Harry C. Wyatt Professor of Chemical Engineering. He has won several awards including the International Award for



Education (2002) and the International Award for Research (2003) from the Society of Plastics Engineers. He is the primary author of a textbook entitled *Polymer Processing: Principles and Design* (John Wiley and Sons). His research interests center on the application of rheology to the processing and characterization of polymers and polymer composites. He presently mentors 11 PhD students and two research scientists with support coming from the NSF, DOE, and several companies.

Donald is an active member of many professional societies which have an emphasis on materials: AICHE, American Chemical Society (Polymer and Materials Division, Society of Rheology (served on executive committee), American Society for Composites, Society for the Advancement of Materials Process Engineering (SAMPE), the Materials Research Society, Polymer Processing Society (PPS), and the Society of Plastics Engineers (SPE). However, I believe strongly that MESD is best situated to serve as a foundation for materials research because of its strong ties to the fundamental physics, chemistry and synthesis, and processing of materials. MESD has played a significant role in helping AICHE smoothly transition into the 21<sup>st</sup> century and maintain it as a viable professional society. I intend to continue and extend MESD's role in AICHE by suggesting new program areas (e.g. transparent foams), developing cooperative ties with the other material societies (e.g. selectively shared sessions), and increasing the membership in MESD (e.g. more industrial participants). I have numerous contacts with the other societies involved with materials and with industry. I believe I can use these contacts to make MESD's role in materials research even more significant and prolific.

**Dr. Clifford L. Henderson** received his B.S. in Chemical Engineering from the Georgia Institute of Technology in 1994 and his M.S. and Ph.D. in Chemical Engineering from The University of Texas at Austin in 1996 and 1998, respectively. After spending a short time with Motorola in the Advanced Products Research and Development Laboratory (APRDL), he joined the faculty at Georgia Tech in



the School of Chemical Engineering. Dr. Henderson is currently an Associate Professor and the Robert C. "Bud" Moeller Faculty Fellow in the School of Chemical & Biomolecular Engineering at the Georgia Institute of Technology.

Professor Henderson's research interests include functional polymer materials, thin films, methods and materials for micro- and nanofabrication, photopolymerization, and stereolithography. He has published over 90 papers in these and other related areas. A general theme in his work is developing an understanding of the connections between chemical structure, micro- and nanostructure, processing, and physicochemical properties in polymeric and inorganic materials and to use this understanding to rationally design improved materials and processes for a variety of applications ranging from microelectronics to tissue engineering. Some current research projects in his group include studying the physicochemical behavior of polymer ultra-thin films, novel photo-definable low-k polymer dielectric materials, thermally sacrificial polymers and polymer processing techniques for microfabrication, advanced photoresist materials for next generation integrated circuit fabrication, and stereolithography processes and photosensitive resin materials for rapid manufacturing and tissue engineering applications.

Professor Henderson has been a member of AICHE for over 15 years and has been particularly active in MESD, having served as chair or co-chair for more than 10 sessions at the annual AICHE National Meetings. He is also an active member of numerous other professional societies including the American Chemical Society, the Electrochemical Society, the Materials Research Society, and the International Society for Optical Engineering (SPIE). Professor Henderson has also organized and chaired numerous materials-related meeting sessions for these other organizations and he currently serves as a conference chair for the annual SPIE Advanced Lithography Symposium, one of the premier international meetings covering micro- and nanolithography materials and technologies. Professor Henderson looks forward to possibly applying this experience to a position in MESD, including organizational approaches to meetings, ideas for increasing industrial participation in meetings, and better integrating industrial and academic research interests in meeting sessions.

Professor Henderson feels that MESD is an extremely important division for AICHE that brings together chemical engineers representing a diverse range of fields who all share common interests related to the science and engineering of advanced materials. He feels that without the programming that MESD provides, chemical engineers involved in the various areas represented by MESD would generally be fragmented into other more specialized conferences and would not have as significant an opportunity to meet and exchange ideas that span their various specific interest areas. As Second Vice Chair and in the positions that

follow, Professor Henderson would focus his efforts on a variety of issues including: (1) extending the connections between MESD and other AIChE divisions to further propagate the integration of “materials” into the core of Chemical Engineering research and teaching, (2) identify ways to increase connections to other materials-related societies and promote joint programming and other methods of increasing participation in MESD events and raising the visibility of MESD outside of AIChE, (2) supporting reasonable session allocations with specific attention to avoiding topic duplication and the dilution of session impact, (3) identifying methods to support the incorporation and integration of Product Engineering as an important concept in modern Chemical Engineering education, and (4) investigating the desire and methods for producing more complete and useful proceedings from MESD sessions.

**Dr. Balaji Narasimhan** is an Associate Professor in the Department of Chemical and Biological Engineering and Director of the Institute for Combinatorial Discovery at Iowa State University (ISU). He has been at ISU since 2001 before which he was an Assistant Professor in the Department of Chemical and Biochemical Engineering at Rutgers University. He received his BS in Chemical Engineering from the



Indian Institute of Technology, Bombay (India) and a Ph.D. from Purdue University. His postdoctoral research was carried out at MIT with Robert Langer. His research has received funding from NSF, NIH, DOD, DOE, USDA, the Whitaker Foundation, the Roy J. Carver Foundation, the W. M. Keck Foundation, the Camille and Henry Dreyfus Foundation, and industry. He has won various awards including the Best Doctoral Dissertation in Mathematics, Physical Sciences, and Engineering at Purdue University, the Whitaker Foundation Biomedical Engineering Research Award, the 3M Non-Tenured Faculty Award, and the ISU Foundation Early Excellence in Research Award. In 2003, he was named as one of the world’s top 100 young innovators by MIT’s Technology Review Magazine with the TR-100 Award.

Balaji’s research is focused on the molecular design of nanoscale polymer systems and biomaterials to precisely control molecular architecture and functionality in these systems. The overall goal is to answer critical questions related to organization and dynamics occurring on length scales ranging from the nanometer to the micron-scale at surfaces of and interfaces between polymers, inorganic materials (e.g., magnetite nanocrystals), cells, and biomolecules (e.g., proteins). His research directions can be classified into two broad themes: engineered biomaterials for drug, protein, and vaccine delivery; and nanoscale polymers. The tools utilized by his group include novel synthesis methodologies, state-of-the-art characterization of polymer nanostructure and dynamics, and molecular modeling. His current research thrusts are in the areas of engineered biomaterials for controlled delivery of polypeptides and vaccines, nanoscale manipulation of multiphase polymeric

materials, bio-inspired materials, nanoparticles, and combinatorial materials science. Balaji has published over 55 articles and book chapters, three patents issued and pending, edited three textbooks, and has given over 35 invited national and international lectures.

Balaji has been actively involved in programming for several professional organizations including AIChE, APS, MRS, and BMES. He has been involved with AIChE since 1997 and is the current chair of Area 8A (Polymers) within MESD. He has chaired sessions in the areas of diffusion in polymers, polymer thin films, and structure-property relationships. He has organized symposia for the Materials Research Society (2000) and the Biomedical Engineering Society (2002). He is currently involved in the organization of the joint US-Japan topical conference on Medical Engineering, Drug Delivery Systems, and Therapeutic Systems at AIChE this year.

As Second Vice-Chair, Balaji will work hard to maintain the high profile and activity level of the MESD and exploit the inherent connectivities between materials, biology, and nanotechnology. He will expand MESD programming via topical conferences and joint programming with materials-related divisions of other societies (e.g., PMSE-ACS, DPOLY-APS). He will also strive to enhance industrial involvement in MESD.



#### Upcoming Meetings and Events

MESD election September 22<sup>nd</sup> – October 16<sup>th</sup>

AIChE has its annual fall meeting November 12-17<sup>th</sup> in San Francisco, CA.

The polls for MESD elections will be open from:  
September 22<sup>nd</sup>-October 16<sup>th</sup>

To vote for candidates use the following web site with the division pass code for login “MES”:

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## Candidates for Position of Director (vote for two):

(i) Joel Fried

(ii) Eric Lin

(iii) Lynn Loo

**Dr. Joel R. Fried** received degrees in biology (B.S.), chemical engineering (B.S., M.E.) from RPI and degrees in Polymer Science and Engineering from UMass Amherst (M.S., Ph.D.). Prior to his studies at UMass, he was an Associate Research Staff member at GE CR&D and after receiving his Ph.D. from UMass in 1976, he was a Senior Research Engineer at Monsanto's CR&D in St. Louis working on the early development of the Permea hollow fiber separation system from. In 1978, he joined the University of Cincinnati as an Assistant Professor of Chemical Engineering. He was promoted to Associate Professor (1983) and Professor (1990) and served as Department Head from 1998 to 2002. He currently holds a Dual Professorship in the College of Medicine (Genome Science) and directs the NSF IGERT program in Bio-Applications of Membrane Science and Technology. His research interests include computational polymer science and biology with special interest in the simulation of diffusion in synthetic and biological membranes. Joel has authored about 150 journal articles, book chapters, patents, and a textbook on *Polymer Science and Technology* (Prentice Hall, 2<sup>nd</sup> edition). Another text on *Computational Chemistry and Molecular Simulations* will be published by Wiley in the coming year. Joel is the current and founding editor of *Polymer Contents* (Elsevier) and serves on the Editorial Boards of *Polymer* and *Polymer Engineering*. Joel has been active in many professional societies including the ACS, NAMS, MRS, Society of Rheology, SPE, ASEE, APS, as well as AIChE and served as Editor of the *Membrane Quarterly* (NAMS) from 1989–98.

As a MESD Director, Joel looks forward to contributing to the Division's continuing growth and success with a particular interest in nurturing interdisciplinary ties with the many related divisions and forums of AIChE through the sponsorship of joint initiatives and programs with coordination from sister organizations. A special interest is the growing importance of life science disciplines in chemical engineering education as well as in industrial practice. MES is ideally positioned to be an important player to help facilitate changes in traditional educational programs in chemical engineering where materials science and biology has increasingly become an important part of the core curriculum. As an example, the newly formed Chemical and Materials Engineering Department at the University of Cincinnati is moving this year to introduce an Engineering Fundamentals course on Biology for Engineers required for both Materials and ChE students in place of one lower-level chemistry course. As a Director, Joel would like to help contribute to the development of a new common curriculum that would excite and better prepare a new generation of chemical engineers through the sponsorship of joint (e.g., AIChE/MESD and ASEE/ChE) symposia and panel discussions.



**Dr. Eric K. Lin** received a B.S.E degree in Chemical Engineering with highest honors from Princeton University in 1991 and M. S. and Ph. D. degrees in Chemical Engineering from Stanford University in 1992 and 1996, respectively, under the direction of Alice P. Gast. He was a National Research Council-National Institute of Standards and Technology (NIST) postdoctoral fellow in the Polymers Division and continued as a NIST staff member in the Polymers Division. In 2002, he was appointed to his current position as Leader of the Electronics Materials Group in the Polymers Division. His honors include the Presidential Early Career Award for Scientists and Engineers, and participation in the National Academy of Engineering "Frontiers of Engineering" Symposium. His research focuses on polymers in thin films, at surfaces and interfaces in advanced technological applications such as nanoporous low-k dielectric materials, polymer photoresists for next-generation lithography, nanoimprint lithography, nanofabrication, and organic electronics. These programs involve extensive external collaboration with several industrial sectors, industrial consortia, international organizations, and universities.

As a Director, I would like to help MESD develop into a strong community that can help lead AIChE in continuing to develop as an innovative, inclusive, and exciting organization. With the increase in prominence of materials throughout science and engineering, MESD can have a larger presence within AIChE and within the broader scientific community. Some of the areas I would like to address include: increasing participation in MESD through identification of memberships that may have lapsed, industrial participants, international members, and students; fostering a sense of community through our own receptions, award program, and networks; developing programs that could include panel discussions of emerging topics or areas with potential synergistic interests or interesting contrasts; and engaging other AIChE divisions in a strategic manner to highlight the contributions and opportunities for chemical engineering in the future. My experience with past activities in AIChE and (session chairing and as a Liaison in the Nanoscale Science and Engineering Forum), in other scientific organizations (APS Committee on Minorities, MRS), and at NIST provide a unique perspective to bring to MESD and to develop new programs.

**Dr. Yueh-Lin (Lynn) Loo** received her BSE in Chemical Engineering and in Materials Science and Engineering from University of Pennsylvania; she received her PhD in Chemical Engineering with Rick Register from Princeton University in 2001. Lynn spent a year as a post-doctoral member of technical staff at Bell Laboratories where she developed



nanotransfer printing (nTP) – a contact printing technique for establishing efficient electrical contacts to mechanically fragile organic materials. In 2002, Lynn joined the Chemical Engineering Department at the University of Texas at Austin, where she is currently an assistant professor, and holds the General Dynamics Endowed Faculty Fellowship in Engineering. Lynn's research at UT centers on developing patterning and processing tools for making organic electronic devices and understanding the structure-property relationships in organic electrically-active materials. Lynn has received numerous awards for her research in organic electronics, including a Camille and Henry Dreyfus New Faculty Award (2002), a DuPont Young Professor Grant (2003), an NSF-CAREER Award (2004), and an Arnold and Mabel Beckman Young Investigator Award (2005). In 2004, Lynn was also selected as one of Top 100 Young Innovators Under 35 by MIT's *Technology Review* for inventing nanotransfer printing. In 2006, Lynn was selected as the inaugural recipient for the Peter and Edith O'Donnell Award in Engineering sponsored by the Academy of Medicine, Engineering and Science of Texas. Most recently, Lynn was named the 2006 Allan P. Colburn Award recipient of the AIChE.

Lynn has been actively involved in the materials community; she served as an associate on the Younger Chemists Committee and was their liaison to the Women Chemists Committee at the ACS, she also served on the Education Committee of the Division of Polymer Physics at the APS, and the Technical Programming Committee of the Device Research Conference. She has co-organized several symposia, including one on polymeric semiconductors at the 2005 Spring ACS meeting and one on organic electronics at the 2006 Spring MRS meeting. For these meetings, Lynn successfully raised >\$10k to support student and young faculty travel to the meetings. More recently, Lynn organized the Division of Polymer Physics short course on Patterning at the 2006 APS meeting, with a record number of attendees from industry and academia. As director, Lynn hopes to bring more diversity and flexibility to MESD's programming by promoting interactions with other divisions within AIChE and materials-centric societies outside AIChE. Lynn would also like to emphasize student and young faculty participation and development within MESD by providing specialized forums and opportunities for networking and discussion.

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### *Useful web links:*

#### **Main MESD Sponsored Topical Conferences**

<http://aiche.confex.com/aiche/2006/techprogram/D1079.HTM>

#### **MESD Organic Electronics Topical Conferences**

<http://aiche.confex.com/aiche/2006/techprogram/D1105.HTM>

#### **Voting for MESD Candidates**

[www.aiche-xtranet.org/divisions/](http://www.aiche-xtranet.org/divisions/)

Login: "MES"

#### **AIChE Annual Conference Information:**

<http://www.aiche.org/Conferences/AnnualMeeting/index.aspx>

#### **For copies of this newsletter and past editions please visit:**

[www.chbe.gatech.edu/mesd](http://www.chbe.gatech.edu/mesd)

## Primary MESD Topical Conference Schedule:

Monday, 13 November 2006	Tuesday, 14 November 2006
<p><b>8:30 AM-11:00 AM</b></p> <p><a href="#">#16 - Approaches for Non-Viral Gene Delivery (08B09)</a></p> <p><a href="#">#17 - Biomaterials I (08B11)</a></p> <p><a href="#">#43 - Processing of Nanocomposites (08F02)</a></p> <p><a href="#">#45 - Reaction Kinetics in Electronic Materials Processing (08E04)</a></p> <p><b>12:30 PM-3:00 PM</b></p> <p><a href="#">#64 - Biological Polymers (08A07)</a></p> <p><a href="#">#85 - Multiphase Polymers in Honor of Stuart L. Cooper's 65th Birthday (08A02)</a></p> <p><a href="#">#94 - Properties and Characterization of Nanocomposites (08F00)</a></p> <p><b>3:15 PM-5:45 PM</b></p> <p><a href="#">#131 - Implantable Biomaterials in Honor of Stuart L. Cooper's 65th Birthday (08B03)</a></p> <p><a href="#">#150 - Stimuli Responsive Polymers (08A12)</a></p> <p><b>6:30 PM-9:00 PM</b></p> <p><a href="#">#163 - Poster Session: Materials Engineering and Sciences Division (08001)</a></p>	<p><b>8:30 AM-11:00 AM</b></p> <p><a href="#">#171 - Biomaterial and Scaffold Design for Tissue Engineering (08B04)</a></p> <p><a href="#">#180 - Composites I (08F05)</a></p> <p><a href="#">#190 - Injectable Biomaterials (08B07)</a></p> <p><a href="#">#201 - Polymer Processing and Rheology I (08A08)</a></p> <p><a href="#">#203 - Polymer Thin Films and Interfaces I (08A16)</a></p> <p><b>12:30 PM-3:00 PM</b></p> <p><a href="#">#219 - Biomaterials for Tissue Engineering I (08B00)</a></p> <p><a href="#">#227 - Composites II (08F01)</a></p> <p><a href="#">#242 - Modeling of Inorganic Materials Synthesis and Properties (08D01)</a></p> <p><a href="#">#250 - Polymer Processing and Rheology II (08A09)</a></p> <p><a href="#">#251 - Polymer Thermodynamics II (08A04)</a></p> <p><b>3:15 PM-5:45 PM</b></p> <p><a href="#">#267 - Biocomposites (08F04)</a></p> <p><a href="#">#268 - Biomaterials for Tissue Engineering II (08B10)</a></p> <p><a href="#">#290 - Multiscale Modeling and Characterization of Polymers (08A11)</a></p> <p><a href="#">#297 - Polymer Processing and Rheology III (08A13)</a></p> <p><a href="#">#298 - Polymer Thin Films and Interfaces III (08A03)</a></p> <p><a href="#">#307 - Sensing Applications of Nanocomposites (08F03)</a></p>

## Primary MESD Topical Conference Schedule (continued):

Wednesday, 15 November 2006	Thursday, 16 November 2006
<p><b>8:30 AM-11:00 AM</b></p> <p><a href="#">#351 - Materials Engineering and Sciences Division Plenary Session (08000)</a></p> <p><b>12:30 PM-3:00 PM</b></p> <p><a href="#">#375 - Biomaterials II (08B01)</a></p> <p> </p> <p><a href="#">#376 - Biosensors (08B05)</a></p> <p> </p> <p><a href="#">#384 - Diffusion in Polymers I (08A05)</a>  <a href="#">#411 - Structure and Properties of Polymers II: Networks and Gels (08A14)</a></p> <p> </p> <p><b>3:15 PM-5:45 PM</b></p> <p><a href="#">#429 - Biomaterials III (08B12)</a></p> <p> </p> <p><a href="#">#431 - Biomimetics I (08B15)</a>  <a href="#">#464 - Structure and Properties of Polymers III: Dynamics of Glass Formers (08A01)</a></p>	<p><b>8:30 AM-11:00 AM</b></p> <p><a href="#">#486 - Biomaterials IV (08B13)</a>  <a href="#">#487 - Biomimetics II: Drug Delivery (08B06)</a>  <a href="#">#512 - Nanostructured Thin Films (08D00)</a></p> <p> </p> <p><a href="#">#513 - Novel Catalytic Materials (08D02)</a>  <a href="#">#520 - Structure and Properties of Polymers IV (08A15)</a>  <a href="#">#521 - Supramolecular Assembly of Inorganic Materials I (08D06)</a></p> <p> </p> <p><b>12:30 PM-3:00 PM</b></p> <p><a href="#">#528 - Advances in Porous Inorganic Materials I (08D04)</a></p> <p> </p> <p><a href="#">#532 - Biomaterials for Drug Delivery I (08B02)</a>  <a href="#">#534 - Biomimetics III: Cell-Material Interactions (08B14)</a>  <a href="#">#556 - Nanostructured Organic/Inorganic Hybrid Materials (08D07)</a>  <a href="#">#559 - Polymerization Reaction Engineering, Kinetics, and Catalysis I (08A06)</a></p> <p> </p> <p><b>3:15 PM-5:45 PM</b></p> <p><a href="#">#574 - Advances in Porous Inorganic Materials II (08D03)</a></p> <p> </p> <p><a href="#">#578 - Biomaterials for Drug Delivery II (08B16)</a></p> <p> </p> <p><a href="#">#589 - Fuel Cell Membranes II (08A10)</a>  <a href="#">#603 - Nanoparticle Assemblies and Superlattices (08D05)</a>  <a href="#">#607 - Plasma Processing I - Co-Sponsored by the American Vacuum Society (08E02)</a>  <a href="#">#613 - Transport Phenomena in Electronic Materials Processing (08E03)</a></p>

## Primary MESD Topical Conference Schedule (continued):

### Friday, 17 November 2006

**8:30 AM-11:00 AM**

[#640 - Polymer Thin Films and Interfaces IV \(08A00\)](#)

**12:30 PM-3:00 PM**

[#658 - Chemical Vapor Deposition I \(08E00\)](#)  
[#680 - Tissue Engineering: Bioreactor Studies \(08B08\)](#)

**3:15 PM-5:45 PM**

[#685 - Atomic Layer Deposition \(08E05\)](#)

## MESD Sponsored Sessions: Organic Electronics

### Wednesday, 15 November 2006

**12:30 PM-3:00 PM**

[#405 - Polymer Thin Films and Interfaces V: Conducting Organics \(T6002\)](#)

### Thursday, 16 November 2006

**8:30 AM-11:00 AM**

[#507 - Morphology and Structure \(T6001\)](#)

**12:30 PM-3:00 PM**

[#564 - Surfaces and Interfaces \(T6003\)](#)

**3:15 PM-5:45 PM**

[#585 - Devices I \(T6004\)](#)

### Friday, 17 November 2006

**8:30 AM-11:00 AM**

[#630 - Devices II \(T6005\)](#)

**12:30 PM-3:00 PM**

[#678 - Synthesis and Materials Design \(T6002\)](#)

**3:15 PM-5:45 PM**

[#696 - Patterning and Processing \(T6000\)](#)

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