



Notes from the Chair

Dear Colleagues,

Hello! As we welcome Fall and the upcoming AIChE Annual Meeting to be held November 16-21, it is time to celebrate as we recognize the 100th Anniversary of AIChE. There are several exciting features to the Group 8 program this year. The MESD Plenary Session will feature our new 2008 Stine Award winner – congratulations to Sharon Glotzer, of the University of Michigan! The plenary will also include talks by Peter Cummings, David Graves, Antonios Mikos, and Hugh Hillhouse. There will be no other Group 8 sessions held during the plenary, which is scheduled for Wednesday morning, to ensure that all can attend. Our MESD poster session, which will be held Thursday evening from 6 to 8:30 pm, is one of our largest, with at least 61 participants from all of the Areas in MESD; this should be an excellent opportunity to find out about new science and developments in our field in a more relaxed environment. Prof. Herbert Sawin from MIT will be honored with a session on Plasma Science and Thin Film Applications (Area 8e – Electronics and Photonics). Several new topics will be covered throughout the meeting – a random sampling of session topics include “Stimuli-Responsive Polymers” (8a-Polymers), “Building Drug Delivery into Tissue Engineering” (8b-Biomaterials), “Nanomaterials for Photovoltaics” (8e), “Modeling of Inorganic Synthesis and Properties” (8d - Ceramics) and “Processing of Nanocomposites” (8f-Composites). We hope to see you at the meeting in a very short time!

With regard to MESD business, this is our Annual Election Edition of the newsletter. We have an excellent set of candidates running for the two posts open for 2008-2009 – the Second Vice Chair and the two open Director positions. Inside you will find biographies and statements of these outstanding candidates for the various MESD positions. The Second Vice-Chair will coordinate programming for the 2010

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Fall Annual Meeting, and eventually progress to the position of Chair of the division. Our Directors do a tremendous job of advising the Board, providing input and new ideas, and promoting the Division to the rest of the chemical engineering community, and prospective members during a two year term period. Our Board has also approved the proposed changes in the MESD By-laws, and they are now ready for a membership vote – please include your vote on the By-laws with the election vote. An important change in the By-laws will make the current Area Chairs members of the MESD Board, enabling more communication between the Board and the individual programming Areas. Finally, as we celebrate 100 years of AIChE, it is also time to reflect on the mission of AIChE – please fill out the short web survey that will be distributed to members so that we can know what kinds of things you would like to see from the Division.

I would finally like to take this time to thank the Directors who have served us so well these past two years – Eric Lin of NIST and Joel Fried of University of Cincinnati. I have had a great experience as Chair of MESD this past year, and am now turning the reins over to Don Baird (Virginia Tech), who has done an excellent job with programming this year as Vice Chair; I am certain he will do an equally outstanding job as our new Chair as his term begins this November.

Paula T. Hammond
 Bayer Professor and Executive Officer
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The ELECTION SLATE: FALL 2008**Candidates for Position of Second Vice-Chair (vote for one):**

(i) Yueh-Lin Loo

(ii) Howard Matthew

(iii) Balaji Narashimhan



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 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 was an assistant professor, and held the General Dynamics Endowed Faculty Fellowship in Engineering. Lynn moved to the Chemical Engineering Department at Princeton University as an associate professor in 2007. Lynn's current research centers on developing patterning and processing tools for making organic transistors and solar cells, as well as understanding the structure-function 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. Lynn was the 2006 Allan P. Colburn Award recipient of the AIChE and most recently was named a 2008 Sloan Fellow.

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 second vice chair, 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.

Howard Matthew is Professor of Chemical Engineering and Materials Science at Wayne State University (WSU) in Detroit, Michigan. He also holds appointments in the Department of Biomedical Engineering and the Department of Surgery. He received a B.Sc. degree in Chemical Engineering (1984) from the University of the West Indies, Trinidad. After two years in industrial food processing, he joined Wayne State University for graduate studies, receiving an M.S.



degree in 1988 and a Ph.D. in 1992. He spent two years as a postdoctoral fellow at Harvard Medical School and Massachusetts General Hospital. He then joined the WSU faculty as an Assistant Professor in 1994.

Howard is a recipient of the National Science Foundation CAREER Award (1996) and a Whitaker Foundation Biomedical Engineering Research Award. His research spans the fields of biomaterials and tissue engineering. His research group focuses on development and application of polysaccharide-based materials and adult stem cells in a number of tissue engineering applications. His work has two broad themes: harnessing and modulating the mechanics and biological activity of polysaccharide materials; and applying these materials in the development of cell and tissue based therapies. The current target applications include: heart valve and large vessel engineering for pediatric applications; regenerative alternatives to liver transplantation; corneal/ocular drug delivery systems; and expansion of hematopoietic cell populations for cancer-related therapies.

Howard has been actively involved in AIChE programming activities, serving as a session chair or co-chair for both MESD (Area 8B - Biomaterials) and the Biomedical Engineering sub-division FP&B (Area 15D). He served as the programming chair of Area 8B for the 2006 and 2007 Annual Meetings. Howard has also been involved in programming for the Biomedical Engineering Society (BMES) and the Society for Biomaterials (SFB).

Materials concepts are at the core of many of the most dynamic areas within chemical engineering. As Second Vice-Chair, Howard will work to facilitate expansion of interdisciplinary programming in emerging and highly dynamic areas, both within MESD and between MESD and other divisions and societies. He will also continue his work started as 8B chair to facilitate broader participation of junior researchers and students.



Balaji Narasimhan is the Associate Dean for Research and Economic Development in the College of Engineering and a Professor of Chemical and Biological Engineering 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. In 2006, he was appointed as

the Director of the Institute for Combinatorial Discovery, a cross-disciplinary research center consisting of more than 35 faculty members focused on combinatorial materials science research. 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. 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 nanostructured 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 nanostructured 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. 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. Balaji has published over 65 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). Some of his recent AIChE-related activities include co-organization of the joint US-Japan topical conference on Medical Engineering, Drug Delivery Systems, and Therapeutic Systems and coordination of topical symposia in the areas of organic electronics and fuel cells. 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

AIChE has its national meeting November 16-21st in Philadelphia, PA.

This year's upcoming Stine Award Nominations are due February 15th, 2009.

The polls for MESD elections will be open from:
October 20th – October 31st

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

www.aiche-xtranet.org/divisions/

You will need your AIChE membership ID and graduation year to submit your ballot.

Candidates for Position of Director (vote for two):

- (i) Eray Aydil (ii) Christine Schmidt (iii) Talid Sinno (iv) Lonnie D. Shea



Eray S. Aydil is a Professor of Chemical Engineering and Materials Science at the University of Minnesota. He received his B.S. degrees in chemical engineering and in materials science from the University of California, Berkeley, both in 1986. He completed his graduate research at the University of Houston and received his Ph.D. degree in chemical engineering in 1991. Following, Eray joined the AT&T Bell Laboratories as a postdoctoral member of technical staff where he focused on developing and applying surface sensitive diagnostic techniques that can be used in plasma etching and deposition reactors. Eray joined the faculty of the Chemical Engineering Department at the University of California, Santa Barbara (UCSB) in 1993 as an Assistant Professor and was promoted to Associate Professor with tenure in 1998 and then to full Professor and Vice Chairman of the department in 2001. In 2005, he moved to Minneapolis and joined the faculty at the University of Minnesota Chemical Engineering and Materials Science Department. His research is focused on solving technologically important and fundamental problems encountered in materials processing for applications in electronic and photovoltaic device manufacturing with emphasis on plasma etching and deposition, plasma modification of surfaces and dye-sensitized and quantum dot solar cells. He is interested in understanding thin film deposition and etching processes used in synthesis of nanostructured materials and in manufacturing of integrated circuits and solar cells. He has authored and coauthored over 125 papers and holds 4 patents. He received the Norman Hackerman Young Author Award of the Electrochemical Society, the National Young Investigator Award of the National Science Foundation, the Camille and Henry Dreyfus Teacher-Scholar Award and the Peter Mark Memorial Award of the American Vacuum Society in 1993, 1994, 1997, and 1999, respectively. He became a fellow of the AVS in 2005 and has served on the editorial board of the Journal of Vacuum Science and Technology between 2004 and 2007. He is a member of the American Association for the Advancement of Science (AAAS), the American Chemical Society (ACS), American Institute of Chemical Engineers (AIChE), the AVS, the Electrochemical Society (ECS), and the Materials research Society (MRS). He has served as the chair of various programming committees in the AVS and the AIChE. Eray is a dedicated teacher; he has numerous teaching awards both at UCSB and at the University of Minnesota.



Christine E. Schmidt is currently the Lawrence E. McMakin Jr. Professor of Chemical Engineering and Biomedical Engineering at The University of Texas at Austin, and is a member of the Texas Materials Institute and the Center for Nano- and Molecular Sciences and Technology. Christine received her B.S. degree in Chemical Engineering from the University of Texas at Austin and a Ph.D. in Chemical Engineering from the University of Illinois at Urbana-Champaign, where she studied with Douglas Lauffenburger. She was an NIH postdoctoral research fellow in Chemical Engineering at MIT with Robert Langer. Christine joined the faculty at the University of Texas at Austin in 1996.

Christine's research is focused on materials science and surface science of materials, as applied to biomedical engineering. She is developing new forms of electrically conducting polymers and natural-based biopolymers to chemically, electrically, biologically, and mechanically trigger nerve regeneration at the macroscopic and nanometer-scales. She has published in many materials science journals including *Nature Materials*, *Progress in Polymer Science*, and *Advanced Materials*. Christine currently serves on the editorial boards for the *Journal of Biomedical Materials Research*, *Journal of Biomaterials Science-Polymer Edition*, *International Journal of Nanomedicine*, and *Encyclopedia of Biomaterials and Biomedical Engineering*. She has received numerous research, teaching, and mentoring awards, including the Christopher Columbus Chairmen's Distinguished Life Science Award, the NSF CAREER Award, and the Whitaker Young Investigator Award.

Christine has been active in AIChE since 1993. She has served as the programming Vice-chair and Chair of Area 8b in MESD, and was a co-organizer of the Topical Conference on "Advances in Biomaterials, Bionanotechnology, Biomimetic Systems and Tissue Engineering" for the 2004 Fall Annual AIChE Meeting. She has chaired and co-chaired numerous sessions in Areas 8b and 15d/e. Christine has also been active in a number of other societies including ACS, MRS, SFB, and BMES.

As a Director of MESD, Christine's goals are to foster the integration of materials into "mainstream" Chemical Engineering and to ensure that MESD is identified by students, faculty, and professionals working in materials science as an essential organization and resource. She plans to support the interdisciplinary nature of materials science research by promoting the visibility and effective collaboration of MESD with other divisions in AIChE and with other materials-related organizations. She also hopes to

recruit and promote the participation of graduate students and young faculty and professionals in MESD, to ensure a strong future for MESD.



Talid Sinno received his B.S. in Chemical Engineering and B.A. in Chemistry from the University of Pennsylvania. He received a Ph.D. (1998) in Chemical Engineering from M.I.T. after which he pursued postdoctoral work, also at M.I.T., until 1999. He has been a member of the faculty of the Department of Chemical and Biomolecular Engineering at Penn since 1999, and is currently Associate Professor

and Director of Graduate Admissions. Talid's research interests are in the broad area of multiscale computational materials science with specific focus on nucleation and aggregation processes in crystalline electronic materials. More recently, he has also been involved in studies of crystallization in colloidal suspensions and stress-directed microstructural evolution in metallic alloys. Talid has received the NSF Career Award (2001) and was selected to attend the Sixth NAE Frontiers of Engineering Symposium meeting in 2000. Talid has been active in AIChE programming over the last several years. He has chaired or co-chaired numerous sessions in multiple Areas and served as the Chair of Area 8e (Electronic Materials) in 2005. As a Director of MESD, he hopes to work on ways to better manage joint programming across the different sub-divisions of MESD. With the ever increasing number of materials-related topics covered at AIChE meetings, more effort must be made to optimize programs in order to reduce overlap thereby increasing the impact of each session.



Lonnie D. Shea is a professor in the Department of Chemical and Biological Engineering at Northwestern University. He received his BS and MS degrees at Case Western Reserve University in Chemical Engineering. He received his PhD in Chemical Engineering and Scientific Computing while working with Jennifer Linderman at the University of Michigan and was a postdoctoral fellow with David Mooney

in the Department of Biologic and Materials Science in the Dental School at the University of Michigan.

He joined the faculty at Northwestern in 1999 and established a research group working at the interface of tissue engineering, gene therapy, and drug delivery. He received an NSF CAREER Award in 2000, which helped get him started on developing new technologies based on combining biomaterials and gene/drug delivery. The objective is to create controllable microenvironments for directing tissue growth. These systems are being applied to clinical problems such as ovarian follicle maturation for treating infertility, islet

transplantation for treating diabetes, nerve regeneration for treating paralysis, and most recently, in collaboration with his wife, cancer diagnostics. His lab consists of approximately 20 graduate students/postdocs/undergraduate students who work closely with basic science and clinical collaborators in several departments, including Neurobiology, Ob/GYN, Endocrinology, and Surgery. In addition to his teaching and research commitments, he is current director of the NIH Biotechnology Training Grant at Northwestern University.

As Director, Lonnie will assist with developing new initiatives, and identifying fundraising opportunities for MESD. Materials science and engineering concepts are fundamental to chemical engineers working across many boundaries, and scientific innovation is critical for numerous applications, such as energy and bioengineering. MESD must lead in facilitating materials research and education across divisions within AIChE.

Revised 10/7/07

Pending Approval of Membership

BY-LAWS
MATERIALS ENGINEERING AND
SCIENCES DIVISION
AMERICAN INSTITUTE OF CHEMICAL
ENGINEERS

Article I. NAME AND OBJECTIVES

Section 1. The name of this group shall be the Materials Engineering and Sciences Division of the American Institute of Chemical Engineers.

Section 2. This Division, which is concerned with the broad field of Materials Engineering and Sciences, is formed in accordance with the Constitution, By-laws, and Rules of the American Institute of Chemical Engineers.

Section 3. The objectives of the Division shall be:

- (a) to further the application of Chemical Engineering in the fields of Materials Engineering and Sciences;
- (b) to provide opportunities for engineers and scientists interested in materials to exchange information through meetings, seminars, courses, and publications;
- (c) to coordinate the AIChE activities in the field of materials with those of other societies working in the same area;
- (d) to provide a forum for the interchange of information and ideas on materials between the producing engineer and the educator;
- (e) to cooperate with other Divisions (especially those cosponsoring programming, e.g., ComSEF, NSEF, PTF, FP&BE, CRE, SEP), Committees (e.g., RANTC), and Technical Societies (e.g.,

SBE) of the AIChE in matters concerning materials –

- (f) to encourage emphasis on materials in chemical engineering education and graduate research; and
- (g) to promote and to help orient research and development activities in the field of materials.

Section 4. The Division is under the supervision and control of the Council of the AIChE. Divisional programming activities shall be carried out in cooperation with and coordinated with the Program Committee of the AIChE. The Division does not have the authority to act for or in the name of the American Institute of Chemical Engineers or to incur any financial obligations in the name of the AIChE.

Article II MEMBERSHIP

Section 1. Members of the Division shall be members of the AIChE who have paid the annual Division dues. (see Article VI, Section 1.) Typically at the invitation of programming committee members, nonmembers of the AIChE may join the Division for three years with the approval of the Executive Committee of the Division. By the end of this time they must have applied for some grade of membership in the AIChE in order to continue as members of the Division.

Article III ORGANIZATION

Section 1. The activities of the Division shall be directed by an Executive Committee consisting of the current four officers, the immediate past Chair of the Division, four persons elected as Directors from the membership of the Division, one representative from each of the MESD programming areas (typically each area's programming chair who is working on the upcoming year) all with voting privileges, and a liaison representative appointed by the Chemical Technology Operating Council (CTOC) of the AIChE and serving as an ex-officio member without voting privileges.

Section 2. The officers of the Division shall be a Chair, a First Vice Chair, a Second Vice Chair and a Secretary-Treasurer, all of whom shall hold membership in the Division and shall be Members or Associate Members of the AIChE. The term of office shall be for one year. Succession from Second Vice Chair to First Vice Chair shall be automatic. The Chair shall not be eligible for reelection. The term of the Secretary-Treasurer may be extended annually by the Executive Committee if no other candidates have been nominated.

Section 3. Directors of the division, all of whom must be members of AIChE, shall be elected for a term of two years each. Two directors will be elected in odd number years. Directors are eligible for reelection. While the Officers are ordinarily occupied with programming and membership service, Directors will assist the Committee in the pursuit of Division objectives and will ordinarily chair task committees as directed by the Executive Committee.

Section 4. The First Vice Chair shall perform the duties of the Chair in the latter's absence. In the event of a vacancy in the office of Chair, the First Vice Chair shall act as Chair

until the next annual election. If a vacancy occurs in any of the other positions on the Executive Committee, the Executive Committee, to fill the unexpired term, shall appoint a replacement from the Executive Committee for an officer or from the membership for a Director.

Section 5. The First Vice Chair shall be responsible for programs which are presented during the year in which he/she holds this office. The Second Vice Chair shall be responsible for initiating programs which are to be presented the following biennium.

Section 6. The Secretary-Treasurer shall keep the records of the Division. He/she shall handle the general correspondence of the Division, shall issue notices of all meetings, and shall be responsible for the mailing of the ballots. He/she shall also collect and disburse funds as authorized by the Executive Committee of the Division. At the end of each year he shall report on the finances and activities of the Division to the Executive Committee of the Division and to the Secretary of the AIChE.

Section 7. There shall be a program Committee, headed by the First Vice Chair (see Article III, Section 5) and staffed by members selected by the Chair of the Division with the approval of the Executive Committee. The Program Committee shall plan the programming activities of the Division and coordinate these with the programs of the AIChE, of other Divisions, and of related groups outside the AIChE. One or more committee members will be designated to represent the Division on the Program Committee of the AIChE.

Section 8. Subcommittees may be formed at the discretion of the Executive Committee. Examples include the Web Subcommittee, the Newsletter Subcommittee, and the Award Subcommittee. Subcommittees will be reviewed annually by the Executive Committee. These chairs hold ex officio membership on the Executive Committee, and they will ordinarily be asked to give reports at Committee meetings.

Article IV MEETINGS

Section 1. There shall be at least one business meeting of the Division each year, held during an Annual Meeting of the Institute.

Section 2. The Chair shall notify the Executive Committee of all meetings of the Division at least three weeks in advance of such meetings. The full MESD membership will be invited to attend the Executive Committee meeting.

Section 3. The Chair of the Division shall preside at all meetings of the Division and of the Executive Committee. In his/her absence the First Vice Chair, the Second Vice Chair, or the Secretary-Treasurer, in that order, shall preside.

Section 4. Except where otherwise stated in these By-laws, all actions at a meeting of the Division will be decided by a majority of those voting.

Section 5. The order of business for meetings of the Division shall be determined by the presiding officer (see Article IV, Section 7) and will include the reading of the minutes of previous meetings, reports of committees, and new business.

Section 6. The Executive Committee shall meet two to four times each calendar year. Meetings may be called by the Chair at such places and times as he/she may deem advisable. Meetings may also be called on the request of four members of the Executive Committee. The Chair shall notify the Executive Committee of all meetings at least three weeks in advance.

Section 7. A quorum is required for a vote. A simple majority of voting members of the Executive Committee shall constitute a quorum. Except where otherwise stated in these Bylaws, all actions of the Executive Committee shall be by majority vote of those voting members attending. If a tie vote results, the decision shall take the course voted by the presiding officer. The presiding officer may also choose to conduct a vote by email after the meeting.

Section 8. Any member of the Executive Committee who fails to attend at least one Executive Committee meeting during a calendar year, or otherwise participate in Executive Committee functions shall be considered to have tendered his/her resignation from the Executive Committee, subject to acceptance or rejection by the Executive Committee.

Article V. ELECTIONS

Section 1. The Chair, the Second Vice Chair, the Secretary-Treasurer, and the Directors on the Executive Committee shall be elected by official ballot made available to the members of the Division on or about September 1. As provided in Article III, Section 4, the new First Vice Chair shall have advanced automatically from his/her previous position as Second Vice Chair. Election shall be by a majority of those voting. Three weeks shall be allowed between the posting of the ballot and the counting of the votes. The votes shall be counted by a representative of the national office, which shall certify the count to the Executive Committee.

Section 2. A Nominating Subcommittee shall be formed in April of each year. The Chair of the Executive Committee shall be the Chair of the Nominating Subcommittee and shall appoint to the committee at least two additional members of the Division who are not currently serving as officers. This group shall formulate a slate of candidates including two or more candidates for each elective position. Other nominations for each elective position will be accepted if nominated by a current Executive Committee member or if petitioned for by at least 5 percent of the membership and submitted to the Chair.

Section 3. No member shall be eligible for election to more than one office at any one time.

Article VI DUE AND FINANCES

Section 1. Annual dues shall be as determined by the Executive Committee of the Division. They shall be payable by January 1 to the Secretary-Treasurer of the Division. Those members who are delinquent on March 1 will be dropped from the rolls of the Division. Members joining after March 1 will be dropped if their dues are not paid within two months after they join.

Section 2. The Executive Committee will make all other regulations regarding payment of dues and will provide for an annual audit of the finances of the Division.

Section 3. The offices of the Chair, the Secretary-Treasurer, the Chair of the Program Committee, and, if designated, the Chair of the Membership Committee and the Chair of the Publicity Committee shall each have available a drawable fund for expenses. The amount shall be determined by the Executive Committee. The funds shall be administered by the Secretary-Treasurer. Items which are reimbursable will be defined by the Executive Committee, subject to review by the Council of the AICChE.

Article VII GENERAL PROVISIONS

Section 1. The Executive Committee of the Division shall determine any question concerning the interpretations of the Bylaws, subject to the jurisdiction of the Council of the AICChE.

Section 2. In all respects not specifically covered in these Bylaws, the general rules of the AICChE governing the conduct of the Divisions shall apply.

Section 3. In the decision of procedural matters not otherwise covered in these Bylaws, Robert's Rules of Order will prevail.

Article VIII AMENDMENTS

Section 1. All proposed amendments to these Bylaws must be reduced to 10 percent of the Division membership.

Section 2. A proposed amendment and a ballot shall be sent to all Division members by first-class mail at least three weeks before the date specified for the return of the ballot. A two-thirds affirmative vote of those replying shall approve the amendment. The amendment shall then be submitted to the Council of the AICChE for approval and shall become effective upon such approval.

MESD Stine Award Biography and Lecture

This year's Charles M.A. Stine Award Winner is Sharon Glotzer, Professor of Chemical Engineering at the University of Michigan, Ann Arbor. She also holds appointments in Materials Science & Engineering, Physics, Applied Physics, and Macromolecular Science and Engineering. She received a B.S. in physics from UCLA and a Ph.D. in physics from Boston University. Prior to Michigan, Sharon worked in the Polymers Division at the National Institute of Standards and Technology.

Sharon's research focuses on computational nanoscience and simulation of soft matter, self-assembly and materials design and is sponsored by NSF, DoE, NASA, AFOSR and the McDonnell Foundation. She has co-authored 130 archival publications and has presented over 170 invited and keynote presentations. Her previous awards and honors include the American Physical Society (APS) Maria Goeppert-Mayer Award, Presidential Early Career Award for Scientists and Engineers, Department of Commerce Bronze Medal, and

several University of Michigan awards. She was a Sigma Xi Lecturer, and is a Fellow of the American Physical Society.

Sharon is very active within AIChE, and was recently elected Director of MESD. Previously, she served as chair of the Nanoscale Science and Engineering Forum, and served twice on the executive committee of Area 1A. She also served as chair of the APS Forum on Industrial and Applied Physics. She serves on many national advisory and study committees, including the National Academies' Solid State Sciences Committee, Technology Warning and Surprise study committee, and Biomolecular Materials and Processes study committee, and presently serves on the TIGER Committee on Defense Intelligence. Sharon served for four years as a Juror for the Heinz Award for

Technology, the Economy and Employment. She currently serves on the editorial boards of Computers in Science and Engineering, AIChE Journal, and Oxford University Press Topics in Chemical Engineering. She presently chairs an International Assessment of R&D in Simulation-based Science and Engineering, a study sponsored by NSF, DoE, DOD, NIH, NASA, and NIST, and is the chair of the 2009 FOMMS Conference to be held July 12-16, 2009. She is the co-founding director of a new Virtual School of Computational Science and Engineering, under the auspices of the Great Lakes Consortium for Petascale Computation and the NSF Blue Waters Project.

Sharon will give her award talk entitled "Design and Assembly of Anisotropic Particles: The Shapes of Things to Come (With a Little Help from Computer Simulation)" at the MESD Plenary Session on Wednesday morning, November 19, 2008 at the AIChE Annual Meeting in Philadelphia.

In Remembrance of Stephanie Lopina

MESD is sad to report that it has lost one of its members Stephanie Lopina. She passed away on Sunday, September 14, 2008. Born in Geneva, IL on January 17, 1964, Stephanie was a 1982 graduate of Roncalli High School in Manitowoc, WI. She went on to earn her Bachelor's Degree in 1986 from Notre Dame, her Master's Degree in 1989 from Lehigh and her Ph D from M.I.T. in 1995. Stephanie was a member of St. Paul's Catholic Church in North Canton and was a Chemical Engineering Professor at the University of Akron. Survivors include her husband Tom Meadowcroft; son Thomas Meadowcroft; daughter Anne Meadowcroft; parents, Thomas and Roma Lopina; six brothers, Tom, Andrew (Elizabeth), Joseph (Colleen), Bartholomew (Annemarie), Philip (Heather), and Matthew; father-in-law and mother-in-law T. Raymond and Elnora Meadowcroft; brothers-in-law Chris Meadowcroft and Mike McHugh; and sister-in-law Cathy Meadowcroft. In honoring her wishes, Stephanie will be cremated. In lieu of flowers, memorial donations may be made to the Lopina Educational Trust Fund at the Catholic Diocese of Green Bay, WI, or to the St. Paul's Catholic Church of North Canton School Endowment Fund. The Reed Funeral Home North Canton Chapel is handling arrangements. Those wishing to send condolences or share a fond memory, may sign the Reed On-Line Guestbook at www.reedfuneralhome.com

MESD Officers

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