ASME
SETTING THE STANDARD

Fluids Engineering

The Fluids Engineering Division is involved in all areas of fluid mechanics, encompassing both fundamental as well as applications

Chair's Message

by Urmila Ghia

Dear FED Members,

Greetings! I have seen many of you at various Conferences over the years; this Newsletter is my opportunity to communicate with all of you at once.

We have had a very active year, with two very successful conferences. Our Summer Conference, FEDSM06, was held in Miami, Florida, July 14–17, 2007, jointly with ASME's Nuclear Engineering Division, and in collaboration with organizers from 5 European Mechanical Engineering Societies: Professor Jean Bataille, Association Française de Mécanique (AFM), France; Professor Dieter Mewes, Verein Deutscher Ingenieure (VDI), Germany; Professor Mike W. Reeks, Institution of Mechanical Engineers (IME), UK; Professor Alessandro Bottaro, Associazione Italiana di Meccanica Teorica e Applicata (AIMTA), Italy; and Professor Ariel Bieshevel, The J. M. Burgers Centre for Fluid Mechanics (JMBCFM), Netherlands. We had a record attendance, nearly 1100, with 20 symposia and 20 fora, for a total of 216 symposium papers, 123 fora papers, 17 oral presentations and 7 plenary talks. The Plenary sessions provided the attendees an opportunity to hear an overview from experts in fluids engineering. The Plenary speakers gave excellent overviews of topical subjects: Quality and Reliability in CFD, Active-Feedback Control of Turbulent Flow, Prediction of Laminar-Turbulent Transition, Development of Nano-Microtechnology and Biomedical Applications, Nanoparticles and Nanoprocesses in Microstructures, and Microfluidics and Multiphase Flows. This meeting had a large emphasis on the development and application of modeling and computational fluid dynamics (CFD). In addition, the program offered a 4-session workshop, Nuclear Industry: CFD Analysis and Standard Problem Requirements, and included CFD Validation and Uncertainty Requirements for Nuclear Industry.

The FEDSM06 Conference also included a special session in honor of the memory of Dr. Sankaraiyer Gopalakrishnan, a long-time ASME FED active participant and friend who passed away much too prematurely on September 5, 2005. Known affectionately as Gopal, he would have been Senior Member of the Fluids Engineering Division at that time. Flowserve, a leading pump-Technology company where Gopal spent much of his career, generously provided financial support to establish a Division-level award, the S. Gopalakrishnan-Flowserve Pump Technology Award, to commemorate

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Spring 2007 Newsletter
James C S Meng, *Editor*

Editor's Message:

Dear Fluid Engineering members:

I believe the value of this letter can be significantly increased if we can reach a much broader base of members. As we all know, we are in a global village. We have many members from all six continents. Especially for the engineers and scientists working on the topics of fluid engineering, there really is no boundary due to geographical separation. Yet, for six years since I have been the editor of this newsletter, I have not received a single article from non-US members. In order to make this newsletter more valuable and carry more useful and timely information, I encourage each Geographical Region leadership to prompt your members to send in articles. Topics are yours to choose, any related fluids engineering activities or regional meetings or technical articles are welcome. Let us try to build toward an issue that over 50% articles are provided by our overseas members.

Sincerely,
James C S Meng

Chair's Message (continued from page 1)

Gopal's contributions to the pump industry. FED very much appreciates Flowserve's generosity and humanism, to honor a great colleague and friend. Dr. Paul Cooper, an illustrious expert in pumping machinery, was instrumental in this endeavor, and we thank him for his very effective leadership in institutionalizing this award. The inaugural-year award was given at FEDSM06 to Dr. John Tuzson, a veteran consultant on pump design to pump manufacturers. John was also a dear friend and an early mentor and associate of Gopal. As Dr. Gopalakrishnan was dedicated to educating and encouraging the next generation of expert pump engineers. In future years, the award will be made to promising young engineers in the pump field.

The Honors and Awards Luncheon speaker, Frank Marks, provided an excellent overview of the Miami Hurricane Center. A meteorologist and hurricane specialist, Frank Marks is Director of Hurricane Research Division, Atlantic Oceanographic and Meteorology Laboratories, National Oceanic and Atmospheric Administration (NOAA).

FEDSM06 was held jointly with the ASME Nuclear Engineering Division's Conference ICONE-14. Research and development (R&D) in the advanced nuclear energy program has a major focus on software development, aimed at producing tools to analyze fluid behavior within the chosen system. Thus, computational fluid dynamics, computational heat transfer, and software validation comprise areas of common interest for the Fluids Engineering Division and the Nuclear Engineering Division. Hence, a collaborative relationship appeared quite natural, as FED has an emphasis on fundamental fluid behavior, whereas NED has an emphasis on fluid systems behavior. Organizing this joint conference was a great experience, and we hope to repeat this experiment four years hence.

We had generous sponsorship from CD Adapco, UGS, UC-CFDRL (University of Cincinnati Computational Fluid Dynamics Research Laboratory), AREVA, TSI Incorporated, AECL, Climax Portable Machine Tools, Inc., Tokyo Electric Power Company, Westinghouse, TDW Services, Hitachi America, Ltd., HYTEC, Idaho National Laboratory, and Global Nuclear Energy Partnership.

We brought back the Authors' Breakfast, a forum for communicating last-minute program changes, instructions to presenters, and other relevant announcements. We brought back Session Evaluation forms to collect session-chair feedback to determine session attendance and paper quality. This information is useful in planning future symposia/fora, as well as for providing initial input about award-quality papers to the Honors and Awards Committee. We also instituted a web-based Conference Survey to obtain attendees' feedback about the conference.

Our Division's contribution to IMECE06 held in Chicago, Illinois, November 5–11, 2006, consisted of 4 symposia and 5 fora, along with the Young Engineers Paper (YEP) contest, and a Panel Session on CFD/EFD Choice — A Dilemma for Industries. Professor Terry Beck, of Kansas State University, chaired the YEP contest, to select the top 3 winners and 2 Honorable Mention candidates. Each received a certificate, and $300 towards their travel to IMECE06, in addition to the prizes: $500 (1st place), $300 (2nd place) and $200 (3rd place). An exciting new event was the HP Best Student Paper contest in Micro/Nanoscale Thermo-Fluids. HP, via Monem Beitelmal, generously donated $5K for awards this year. The first-place award ($3K) went to Xiaole Mao, of Pennsylvania State University, with Jonathan C. Kao, of the State University of New York, Stony Brook, receiving the 2nd place award ($2K). The awards were made at the FED Reception. Dr. Kendra Sharp, of Pennsylvania State University, chaired the awards committee. We hope that the event can be repeated in future years.

The Freeman Scholar award winner, Dr. Promode R. Bandyopadhyay, of the Naval Undersea Warfare Center, Newport, RI, presented a very interesting lecture at IMECE06 on Biorobotics, and Implementing Swimming and Flying in Nature into Engineering. We are considering moving the Freeman Scholar Award Lecture in the future from the IMECE to our Summer Meeting, to give it greater prominence in the Program.

The *Journal of Fluid Engineering* (JFE) continues to grow in the number of submissions, number of pages and impact factor, under the leadership of our Editor, Joe Katz. I strongly encourage authors of all papers presented at FED meetings to submit their contributions to this Journal.

Our Summer 2007 meeting is being organized jointly with the Japanese Society of Mechanical Engineers (JSME), and constitutes the 5th Joint ASME/JSME Fluids Engineering Conference in beautiful San Diego, California, July 30-August 2, 2007. In addition to various symposia and fora, special panel discussions on government and industry outlooks on engineering are also planned. A technical panel will focus on Micro Scale Transport in Lab-on-a-Chip applications. A workshop on CFD Fundamentals and Developments is planned for Sunday afternoon, July 29. The reception this year will be on Sunday evening, following the workshop.

IMECE is undergoing a renaissance. Having grown to become as large as it had, the Board of Governors agreed that change was necessary. So the new Congress will be focused primarily on technical sessions, and will be a 4-day meeting (Monday–Thursday). This will permit all divisions to have sessions in parallel rather than the previous practice of some Divisions' sessions being scheduled at the start of Congress, and others during the second half. The new plan will enhance inter-disciplinary collaboration, leading to increased Multi-disciplinary activities. To further promote multi-disciplinarity, IMECE07 is organized as Multi-Disciplinary Technical Tracks with Symposia/Fora residing in these tracks. Thus, each Track requires participation by at least two Divisions. FED is collaborating with the Heat Transfer Division, and is specifically organizing 6 Symposia, 4 Fora and a Panel session titled "CFD/EFD Choices — A Dilemma for Industries".

FEDSM08 will be a joint meeting with the Divisions of Heat Transfer, Advanced Energy Systems, Solar Energy, and the Nano Institute. This should be a very well attended meeting with an excellent mix of society interests. It will be held in Jacksonville, Florida, during the second week of August (most likely, August 10–14, 2008). Abstracts will be due about December 15, 2007, and draft manuscripts around March 1, 2008.

You might recall that Ali Ogut, FED Chair 2003–2004, had initiated a project

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FED Honors & Awards Committee's Report

Fluids Engineering Award

by Adiel Guinzburg, Chair

The Fluids Engineering Award is conferred upon an individual for outstanding contributions over a period of years to the engineering profession and in particular to the field of fluids engineering through research, practice or teaching. The recipient of the 2006 Fluids Engineering Award is **Wolfgang Rodi,** Professor and Director at the Institut für Hydromechanik, Universität Karlsruhe. Rodi began his scientific career at the mechanical engineering department at the Imperial College, London, where he played a major role in the development of the two-equation, Reynolds-stress and algebraic-stress turbulence models, which are now widely used in practice. In 1973, he moved to the civil engineering department at Karlsruhe University where he has been a professor since 1981. At Karlsruhe, he transferred his turbulence-model experience to the area of hydraulics and pioneered the application of turbulence models in this field. Rodi laid much of the groundwork for our present capabilities to predict turbulent flow problems in hydraulics. He maintained his interest in other areas such as building aerodynamics, environmental flows, turbomachinery and aerodynamic flows and earned worldwide recognition through further refinement of turbulence models and their extensive testing in these areas. In the 1990s, Rodi shifted his interests to Large-Eddy Simulations of complex flows and has established himself as a major expert in the field. Recently he has begun direct numerical simulations of unsteady transitional flows in turbomachinery. His group is among the very few in the world performing such complex calculations. Rodi also supervised careful experiments that resulted in widely used benchmark test cases for calculation methods. Rodi has some 280 publications, including books on turbulence modeling and 120 journal papers.

He is associate editor of the ASCE *Journal of Hydraulic Engineering* and editor of the *Journal of Flow, Turbulence and Combustion*. He initiated and organized the successful International Symposium on Engineering Turbulence Modeling and Measurements held every three years since 1990. He served for five years as chairman of the Scientific Program Committee of the European Research Community on Flow, Turbulence and Combustion (ERCOFTAC) prior to becoming the deputy chairman of ERCOFTAC in 1999. Rodi is a recipient of many awards including the 2004 DGLR (Deutsche Gesellschaft fuer Luft- und Raumfahrt) Lectureship Award. ■

Fluids Machinery Design Award

The Fluid Machinery Design Award is presented biennially to recognize excellence in the design of machinery involving significant fluid mechanics principles, which benefits mankind as exemplified by product use within the past decade. The recipient of the 2006 Fluid Machinery Design Award is **Bruno Schiavello**. He has been director for fluid dynamics at Flowserve Pump Division, Technology Department, in Phillipsburg, New Jersey, since 2000, and previously served in the same position with Ingersoll Dresser Pump Company. He started in the R&D department of Worthington Nord (Italy), then joined Central R&D of Worthington, McGraw Edison Company, and then Dresser Pump Division. Schiavello was co-winner of the H. Worthington European Technical Award in 1979. He has written several papers and lectured at seminars in the area of pump recirculation, cavitation, and two-phase flow. He is a member of ASME, AIAA, Societe Hydrotechnique de France, and the International Association for Hydraulic Research. He has served on the International Pump Users Symposium Advisory Committee since 1983.

Schiavello received a B.S. degree (mechanical engineering, 1974) from the University of Rome, and an M.S. degree (fluid dynamics, 1975) from Von Karman Institute for Fluid Dynamics, Rhode St. Genese, Belgium. ■

Robert T. Knapp Award

This award is given for the best paper presented at the Fluids Engineering Division sponsored sessions dealing with analytical, numerical and laboratory research. The 2006 Knapp Award was awarded to **Yi-Chih Chow, Joseph Katz, Francesco Sorrana,** and **Oguz Uzol** of the Johns Hopkins University, Baltimore, MD for their paper entitled "3d Measurements of the Mean Velocity and Turbulence Structure Within the Near Wake of a Rotor Blade." This paper is published in the Proceedings of the 2005 ASME Fluids Engineering Summer Conference (FEDSM2005-77315).

Yi-Chih Chow received his B.S. and M.S. degrees in Naval Architecture and Ocean Engineering from the National Taiwan University. He joined Professor Joseph Katz's group at The Johns Hopkins University in 1999. He studied turbomachinery fluid mechanics using advanced PIV techniques, and earned his Ph.D. degree in 2005. He currently works with Professor Katz as a postdoctoral fellow. His research interests include turbulence modeling, propulsion systems, and PIV technique advancement.

Joseph Katz is a graduate of Tel Aviv University and the California Institute of Technology. He joined The Johns Hopkins University in 1988, and has been a professor of mechanical engineering for over 10 years. He is currently the William F. Ward Sr. Professor of Mechanical Engineering. In addition, he manages the Laboratory for Experimental Fluid Dynamics and is technical editor of the *Journal of Fluids Engineering*. His research is focused on experimental fluid mechanics and development of advanced diagnostics techniques, including particle image velocimetry (PIV) and holography.

Other research interests include cavitation phenomena, multiphase flows, complex flow structure and turbulence within turbomachines, and flow structure and turbulence in the bottom boundary layer of the coastal ocean. Katz is widely published and is the 2004 recipient of

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FED Honors & Awards Committee's Report: (continued from page 3)

the ASME Fluids Engineering Award. The award recognizes outstanding contributions over a period of years to the engineering profession and, in particular, the field of fluids engineering through research, practice, or teaching.

Francesco Soranna is a Ph.D. student in the mechanical engineering department at The Johns Hopkins University. He works in the Laboratory for Experimental Fluid Dynamics, under the supervision of Professor Katz. In 2001, he received his Laurea degree in mechanical engineering from Politecnico di Torino and a master's degree in mechanical engineering from The Catholic University of America. His current research focuses on the effects of wake-wake interactions and wake-blade interactions on the turbulence structure within multistage turbomachines. He is a student-member of ASME and AIAA.

Oguz Uzol received his B.S. and M.S. degrees from the Department of Aeronautical Engineering at the Middle East Technical University, in Ankara Turkey, in 1992 and 1995. He received his Ph.D. in 2000 from the Department of Aerospace Engineering at Pennsylvania State University. He joined Professor Katz's turbomachinery research group at The Johns Hopkins University in 2001 as a postdoctoral fellow, and remained there until 2005. He is currently an assistant professor in the Department of Aerospace Engineering at the Middle East Technical University. His research interests include turbomachinery fluid mechanics and heat transfer, propulsion systems design, development of small and efficient propulsion systems and turbulence modeling. ■

Lewis F. Moody Award

The Lewis F. Moody Award is given for the best paper presented at the Fluids Engineering Division sponsored sessions dealing with a topic useful in mechanical engineering practice. The 2006 Moody Award was presented to **Donghyun You, Meng Wang, Parviz Moin,** Center for Turbulence Research at Stanford University, and **Rajat Mittal,** George Washington University for their paper entitled "Vortex Dynamics and Mechanisms for Viscous Losses in the Tip-Clearance Flow." This paper is published in the Proceedings of the 2005 ASME Fluids Engineering Summer Conference (FEDSM2005-77175).

Donghyun You is a research associate at the Center for Turbulence Research and the Center for Integrated Turbulence Simulations, Stanford University. His interests are in numerical simulation of complex flows. He has a Ph.D. in mechanical engineering (2004) and an M.S. in scientific computing and computational mathematics (2003) from Stanford University.

Meng Wang is currently an associate professor, Department of Aerospace and Mechanical Engineering, University of Notre Dame. Before he joined the Notre Dame faculty in 2006, he worked at the Stanford/NASA Center for Turbulence Research for 13 years as a postdoctoral fellow/research associate/senior research scientist. His interests include numerical simulation, modeling, and control of turbulent flows and aeroacoustics. He has a Ph.D. in mechanical engineering (1989) from the University of Colorado, Boulder.

Parviz Moin is the Franklin P. and Caroline M. Johnson Professor of Mechanical Engineering, director of the Center for Turbulence Research, director of the Center for Integrated Turbulence Simulations, and director of the Institute for Computational and Mathematical Engineering at Stanford University. His interests include the physics, modeling, and control of turbulent flows. He is also interested in developing efficient numerical methods for large-scale computations and parallel computing. He has a Ph.D. in mechanical engineering from Stanford University (1978).

Rajat Mittal is an associate professor at the Department of Mechanical and Aerospace Engineering, George Washington University. His interests are in computational fluid dynamics, vortex dominated flows, fluid structure interaction, and biofluid dynamics. He has a Ph.D. in applied mechanics from the University of Illinois at Urbana-Champaign (1995). ■

S. Gopalakrishnan-Flowserve Pump Technology Award

The Award was established in July 2006, with funding generously provided by the Flowserve Corporation, in honor of the late Dr. Sankaraiyer Gopalakrishnan, "Gopal". The first recipient of the award was a close friend and associate of Dr. Gopalakrishnan. The Award was given to **Dr. John Tuzson** at the special session held on July 17, 2006 at the Fluids Engineering Summer Meeting, in honor of Gopal. Future awards are in keeping with Gopal's dedication to the education of the next generation of expert pump engineers. Tuzson is a pump design consultant with 40 years industrial experience in machine design. He is past chairman and pump symposium co-organizer of the Fluids Machinery Committee of ASME. Tuzson received his B.S. degree in mechanical engineering at the Conservatoire National des Arts et Metiers, Paris, France in 1955. From 1955 to 1956 he worked at the NEYRPIC-SOGREAH in Grenoble, France as an engineer. He then moved to M.I.T and conducted research on the cyclone duct separator. He received his Ph.D. from M.I.T in 1959. Tuzson led research programs from 1959 until 1993 at a number of companies and research institutions, including: Whirlpool Corp. in St. Joseph, Michigan; I.I.T. Research Institute in Chicago; BorgWarner Corp. Research Center in Des Plaines, Illinois; Allis Chalmers Corp., Advanced Technology Center in Milwaukee; and Gas Research Institute in Chicago. Tuzson taught courses at the Illinois Institute of Technology and Michigan State University. He has published many technical papers and book chapters, and authored *Centrifugal Pump Design,* published by Wiley in 2000. ■

Fluid Mechanics Technical Committee (FMTC)

By Khaled J. Hammad FMTC Chair, and Francine Battaglia FMTC Vice-Chair

The Fluid Mechanics Technical Committee (FMTC) is the main platform within ASME dedicated to organizing technical activities in the area of fundamental fluid mechanics. FMTC members organize, promote, and present symposia, fora, and panel discussions on topics of importance to the fluid mechanics technical community. There are more than 50 active members. The business meetings of FMTC are held twice a year, at the International Mechanical Engineering Congress and Exposition (IMECE) and the Fluids Engineering Division (FED) Summer Meeting. Elections of FMTC officers were held during the 2006 2nd U.S.-European FED summer meeting, Miami, FL. The two-year term (2006-2008) of the current officers began at the conclusion of the Miami meeting. The FMTC initiated an effort to re-invent itself by attracting a new generation of volunteers and establishing a close working relationship with other technical committees through jointly sponsored multidisciplinary activities. FMTC organizes a symposium/forum seeking fundamental research contributions to the general area of fluid mechanics (http://divisions.asme.org/fed/call/3rdSymponFundamentallssuesandPerspectives.pdf).

The symposium is typically scheduled for the FED summer conference while a forum version of it is planned for the IMECE. Each area or sub-theme attracting strong interest is eventually expanded to form the basis of a new, stand alone, symposium/forum.

FMTC members are currently engaged in organizing the following symposia/fora, for the 5th Joint ASME/JSME Fluids Engineering Summer Conference, to be held in San Diego, CA, on July 30 to August 2, 2007.

- Symposium on Fundamental Issues and Perspectives in Fluid Mechanics
- Symposium on Flows in Manufacturing Processes
- International Symposium on Flow Applications in Aerospace
- Forum on Advances in Fluids Engineering Education
- Forum on the Transport Phenomena in Mixing
- Forum on Biological Flows
- Forum on Recent Developments in High-Speed Flow Research

FMTC is also sponsoring the following symposia/for a scheduled during the IMECE to be held in Seattle, WA, November 11–16, 2007.

- Symposium on the Fundamentals and Applications of Sensors and Sensing in Engineering and Biology
- Symposium on Rheology and Fluid Mechanics of Nonlinear Materials
- Forum on Fundamental Issues and Perspectives in Fluid Mechanics

We cordially invite you to assist in organizing, and/or contributing to the technical sessions and other activities of FMTC.

As a volunteer organization, we depend on the dedicated efforts of those interested in fundamental fluid mechanics issues and their communication to other researchers and practitioners. FMTC is always seeking ideas and new members with the capacity and interest in fulfilling our future plans.

Information about FMTC can be found on our website (http://divisions.asme.org/fed/committees/fmtc.html). Further information can be obtained by contacting either the FMTC chair: Dr. Khaled J. Hammad of Dantec Dynamics (khaled.hammad@dantecdynamics.com) or the Vice-Chair: Dr. Francine Battaglia of Iowa State University (francine@iastate.edu). ■

Fluids Engineering Division
Honors and Awards

Fluids Machinery Design Award

Would you like to honor your colleague in the design of machinery? Please consider nominating them for the 2008 Fluids Machinery Design Award.

The **Fluids Machinery Design Award** http://divisions.asme.org/fed/awards/fmda.html is presented biennially to recognize excellence in the design of machinery involving significant fluid mechanics principles, which benefits mankind as exemplified by product use within the past decade.

Award criteria are:

1. Fluid machine: the design must be such that fluid mechanics is a significant factor in its operation.
2. Usefulness: the design must have as its objective benefits such as increased performance or improved living conditions.
3. Period: contemporary designs which entered service prior to the date of nomination for the award are applicable.
4. Excellence: the design must represent an improvement in the state-of-the-art. Originality and/or patentability are desirable.

A list of recent **Fluids Machinery Design Award** recipients can be found at the following link: http://divisions.asme.org/fed/awards/fmda.html

Was there an exceptional paper presented at a recent conference? You have the opportunity to honor the presenter(s).

The **Lewis F. Moody Award** is given to the authors of the best paper presented to the Fluids Engineering Division dealing with a topic useful to in mechanical engineering practice.

A list of recent Moody recipients can be found at the following link: http://divisions.asme.org/fed/awards/lfma.html

The **Robert T. Knapp Award** is given to the authors of the best paper presented to the Fluids Engineering Division dealing with analytical, numerical and laboratory research.

A list of recent **Knapp Award** recipients can be found at the following link: http://divisions.asme.org/fed/awards/rtka.html

Fluids Engineering Award

Would you like to honor your most outstanding colleague in the fluids area? Please consider nominating them for the 2008 Fluids Engineering Award.

The **Fluids Engineering Award** is the most prestigious award conferred by ASME upon an individual in the field. It recognizes an individual for his/her outstanding contributions, over a period of years, to the engineering profession and in particular to the field of fluids engineering through research, practice or teaching.

The award consists of a $1,000.00 honorarium and a Bronze Medal Plaque

A list of recent **Fluids Engineering Award** recipients can be found at the following link: http://divisions.asme.org/fed/awards/fea.html

The Division also sponsors the **Freeman Scholar Program** which selects a person of outstanding ability to review a major technical area of fluids engineering.

Deadline for nominations: September 30th each year.

Achievement Nomination Form and Instructions: http://divisions.asme.org/fed/awards/Achievement%20Nomination%20Form%20and%20Instructions.pdf

Achievement Nomination Reference Form: http://files.asme.org/asmeorg/Governance/Honors/SocietyAwards/7760.doc

E-mail your nomination to:

Dr. A. Guinzburg, Chair, Honors and Awards Committee, ASME Fluids Engineering Division
Phone: 310-429-3665, Email: adiel@alumni.caltech.edu

Chair's Message (continued from page 2)

to document the FED history with assistance from Sam Martin, Professor Emeritus, Georgia Tech, and with a long association with FED. Sam went to great distances, literally, to collect old records, and assemble valuable historical facts about the Division. The project is now awaiting addition of information from the recent past. I plan to call upon the FED Chairs of the past 6 years to provide that information to complete the project. The goal is to place this history document on the FED website, incorporate any input we receive from the FED Community, and then create a print copy.

I would like to give you an update on our membership numbers. Our Division currently has 3062 members, as compared to 3135 members last year. This represents a drop of about 70 members, although 122 new members came aboard. Clearly, several members let their membership lapse. So, I urge you to please renew your membership regularly, as well as encourage new members to join us so they bring fresh ideas to our Division's activities.

The success of our Division relies on the contribution of all of you, especially the numerous volunteers who devote their time and energy to organize our conferences and other activities. I want to thank each one for working tirelessly for the Division. I also want to acknowledge the support of our current ASME personnel, especially, Stacey Cooper, Erin Dolan, Phyllis Klasky, Jacinta McComie, Melissa Torres, and Richard Ulvila, for all that they do to help us with our activities.

In closing, let us be reminded that the technical program of our division is a primary activity of our 6 Technical Committees (TC). The TCs meet during our Summer and Winter Conferences. The TC meetings are open to all interested individuals. At FEDSM07 in San Diego, the meetings of the 6 FED Technical Committees are scheduled for Monday, July 30, and Tuesday, July 31, 2007. Please look for the TC meeting schedule at the Conference, and stop by and participate in the TC meetings. This is your Division, and I want you to be proactive, and involve yourself in the TC proceedings. Contact information for the FED TCs is available at http://divisions.asme.org/fed/committees/tech.html.

I look forward to seeing you at the 5th Joint ASME/JSME Fluids Engineering Conference (FEDSM07) in San Diego, California, July 30–August 2, 2007, and then at the new IMECE07 in Seattle in November 11–15, 2007. In the meantime, do not hesitate to contact me if you have thoughts/ideas/feedback that you would like the Division to consider. ■

Best Wishes,
Urmila Ghia, FED Chair

Executive Committee 2006–2007