



Message from the Outgoing Chair

Arvid Naess, OOAED Chair

I have had the privilege and great honor of being a member of the Executive Committee (EC) of the Ocean, Offshore and Arctic Engineering Division (OOAED) since the 15th International OMAE conference in Florence, Italy, which took place in 1996. It was a great conference in a spectacular location, and, of course, for me it has ever since held a particular position among the many conferences I have attended over the years. Being a Norwegian of birth and heart, I was also particularly proud to be able to welcome the ocean and offshore engineering community to the 16th International OMAE conference in Oslo, the capital of Norway, in June last year. This turned out to become one of the most successful conferences in recent OMAE history in terms of technical program, attendance and number of published papers. As chairman of the conference, I had first hand knowledge of the tremendous job done by a large team of volunteers, from the symposium coordinators to the session organizers. Their dedication and determination to get the work done, never topped to amaze me. Their efforts went well beyond the call of duty, and the fantastic thing is that they don't seem to tire of it. Most of them do this every year, for a very new OMAE conference. Our key volunteers have been faithful to the Division for many years, and they rarely resign. When this happens from time to time, it is almost invariably due to the fact that the person has assumed too many assignments of voluntary duties. Our professional society would indeed be a much less exciting place to be if it was not for this civil spirit in the highest degree of all our volunteers. To me, this bears witness also of another aspect of this kind of work - the feeling of giving something back to the professional community you are part of and care about.

I believe that I am speaking on behalf of all our volunteers when I say that becoming a volunteer and contributing your share to the continued development of your division, is both rewarding and meaningful work. Read this as a strong recommendation to get involved. You will become a member of an exciting corps of volunteers, and you will get the chance to work with some of the best people in ocean and offshore engineering. If you are not already a member of the OOAED Division, do yourself the favor of becoming one. In particular, we would like to see more international members in our Division.

My tenure as Chair of the OOAED Division will end July 1st this year. It has been an exciting year with several challenges to cope with, but I am happy to say that the Division is in a fairly healthy state. Admittedly, not all my ambitions for the development of the Division during this past year have been brought to fruition. However, I am in the fortunate situation that I shall be passing on the torch to Prof. Michael Bernitsas, who has completed his term as First Vice-Chair of the EC. I have known Michael for a number of years through my work for the Division, and I know it will be in very able hands indeed under his leadership. In the newly elected EC he is fortunate to be able to rely on a group of dedicated professionals, who have been serving the Division for many years, like Dan Valentine as First Vice-Chair, John Halkyard as Second Vice-Chair and treasurer, Hisaaki Maeda as secretary, John Robinson and Terry Jones. This group of first-rate volunteers will be joined in the



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EC by the following exciting group of new members elect: Dr. Christina Wang of ABS, Prof. Takeshi Kinoshita of the University of Tokyo and Prof. Bernt Leira of the Norwegian University of Science and Technology.

As is customary, in the OOAED Summer Newsletter, there is considerable emphasis on the 22nd International OMAE conference in Cancun, Mexico, which was held in June 8-13 this year. Being the first OMAE conference ever on Mexican soil, it represents a milestone in the history of our conference. And the fact that it takes place in the beautiful resort town of Cancun on the Yucatán Peninsula, a place of great historical and cultural interest, does not lessen the attraction. I was confident that we could expect to have yet another great OMAE conference, and we did under the leadership of Dr. Oscar Valle Molina as the Conference Chair and Prof. Cengiz Ertekin as the Technical Program Chair, and to a fabulous group of friends

First Call for Papers and for Participation in the Ocean Engineering Symposium to be held at the OMAE 2004 in Vancouver, BC

Daniel T. Valentine, Editor, OOAEE Newsletter Summer 2003 • Co-coordinator of the OE



This is a solicitation for ASME member participation in the 23rd OMAE International Conference (OMAIE 2004). It is the first Call for Papers and the first Call for Volunteers interested in helping to organize sessions for the Ocean Engineering (OE) Symposium. The OE Symposium is in its third year of this prestigious series of international conferences. The symposium covers the spectrum of ocean engineering topics. The topics of interest include internal and surface nonlinear waves, dynamics of coastal seas, sloshing in tanks, seiching in lakes and harbors, computational analysis methods in hydrodynamics as applied in design and in enhancing insight, marine propulsion devices, marine vehicles (ships,

sailing yachts and small boats), fluid-structure interaction, cavitation, noise, animal propulsion, fish farming, wave energy, mining, underwater-autonomous vehicles, etc. These topics and more will be grouped in sessions with titles (for example): Wave Mechanics & Wave Effects, Marine Vehicles & Structures, Towed & Undersea Cables & Pipes, Mooring & Buoy Technology, Underwater Technology, Computational Mechanics, Geotechnology, Foundation Engineering, Coastal Hydrodynamics, Renewable Energy, Aquaculture, Instrumentation & Measurement, Model Tests, and Marine Environmental Engineering.

Select a topic of interest to you, plan to submit an abstract by October 13,

2003, plan to prepare a paper and give a talk on your work. If you are interested in assuring that you meet experts in your field as well as others with common interests and experiences, then we invite you to help organize sessions. When you help organize sessions, you ensure that your interests in Ocean Engineering are covered at the symposium in a most satisfying way (I say this from personal experience). More details of this symposium can be found at the URL: <http://www.ooae.org/omaesymposia/oesymposium.htm>. If organizing sessions is of interest, e-mail me at your earliest opportunity at clara@clarkson.edu. □

Executive Committee of OOAEE Division

Members for the Period 1 July 2003 - 30 June 2004

Outgoing Chair: Prof. Arvid Naess, Norwegian University of Science & Technology, Arvid.Naess@bygg.ntnu.no.

Chair: Prof. Michael Bernitsas, University of Michigan, michaelb@engin.umich.edu.

First Vice-Chair: Prof. Daniel T. Valentine, Clarkson University, clara@clarkson.edu.

Second Vice-Chair and Treasurer: Dr. John Halkyard, Offshore, Inc., JHalkyard@technip-coflexip.com.

Secretary: Prof. Hisaaki Maeda, Nihon University, maedah@iis.u-tokyo.ac.jp.

Member: Mr. Terry Jones, Consultant, TJones9345@aol.com.

Member: Mr. John Robinson, DCA-W.S. Nelson & Company, Robinsonj414@asme.org.

Member Elect: Bernt Leira, NTNU, bernt.leira@civil.sintef.no.

Member-Elect: Christina Wang, ABS, cwang@eagle.org.

Member-Elect: Prof. Takeshi Kinoshita, Univ. of Tokyo, kinoshit@iis.u.-tokyo.ac.jp.

ASME Staff Support

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The Technical Committees of the OOAEE Division

The committees meet once a year at the annual OMAIE conferences. Organizing the seven symposia held each year at the OMAIE, helping to submit worthy papers from the symposia and otherwise supporting the Journal of Offshore Mechanics and Arctic Engineering are the principal activities of the committees. The committee chairs are recognized below.

Offshore Technology

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Safety and Reliability

Prof. Carlos Guedes Soares, Unit of Marine Tech. and Eng., Instituto Superior Técnico, Av. Rovisco Pais, 1096 Lisboa, Portugal, Tel: 351-1-841-7957, Fax: 351-1-847-4015, E-mail: guedess@alfa.ist.utl.pt

Materials Technology

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Pipeline Technology

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Ocean Space Utilization

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Prof. Hisaaki Maeda, Nihon University, 3-17-25, Yagumo, Meguroku, Tokyo 152-0023, Japan, Tel: 81-90-1535-8413, Fax: 81-3-3725-1253, E-mail: maedah@iis.u-tokyo.ac.jp

Ocean Engineering

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Polar and Arctic Sciences and Technology

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CANCÚN, MEXICO in June • The Technical Program

R. Cengiz Ertekin – OMAE 2003 Technical Program Chairman

This is the first time an OMAE conference was held in Mexico, and we are very proud of having an OMAE conference in Cancun.

The Ocean, Offshore and Arctic Engineering (OOAE) Division of ASME International, in cooperation with the Instituto Mexicano del Petroleo (IMP), organized the 22nd Annual Offshore Mechanics and Arctic Engineering Conference (OMAE 2003) held in Cancun, June 8-13, 2003. More than 20 international professional engineering societies co-sponsored OMAE 2003.

More than 300 technical papers were presented at the conference in seven symposia. They are

- Offshore Technology
- Safety and Reliability
- Materials Technology
- Pipeline Technology
- Ocean Space Utilization
- Ocean Engineering
- Polar and Arctic Sciences and Technology

Also, industry workshops, and special panel sessions were included in the technical program. National and international oil companies sponsored and participated in the conference. Some of the workshops and panels included in the technical program were

- Offshore Geotechnics
- Deep Water Production Systems: Innovations and Technology for Future Developments in Mexico
- Flowline and Riser Developments at Campos Basin
- Top Tensioned Risers
- Human and Organizational Factors and Reliability of Offshore Structures

None of the OMAE conferences could have been successful without the contributions of a group of dedicated and hard working individuals in the organization of the conference, with the sole goal of serving the members of our professional community. This, of course, is true for OMAE 2003 also, and it is with great honor that I have had an opportunity to work with a number of great colleagues during the preparations for this conference: they are the international and local organizing committee members,

international advisory committee members, representatives of the co-sponsoring societies, symposia coordinators, session organizers and chairs, authors, reviewers, and ASME support staff. Without their hard work, we would have certainly not been able to put together OMAE 2003. In particular, I would like to express my deepest appreciation to my friends Prof. Arvid Naess, OOAE Division Chairman, to Mr. Oscar Valle, the Chairman of the OMAE 2003 Conference, to Dr. Ernesto Heredia, the Technical Local Program Chairman and the Workshop Co-Coordinator, to Dr. Denby Morrison of Shell Oil company in Houston, the Co-coordinator of the OMAE 2003 Workshop Program and the Representative of the OOAE Division at the International Conference Committee, the coordinators of the seven

OMAE 2003 symposia:

Dr. Subrata Chakrabarti, Prof. Carlos Guedes Soares, Dr. Mamdouh Salama, Mr. Terry Jones, Prof. Takeshi Kinoshita, Prof. Hisaaki Maeda, Prof. Daniel Valentine, and Dr. Walter Kuehnlein, and to Ms. Christina Perakis, Ms. Cynthia Clark, Ms. Barbara Signorelli, and Mr. John Bendo of the ASME International for their outstanding efforts to make this an excellent meeting.

I am happy to report that we all enjoyed OMAE 2003 and our stay in Cancun. □



The **22nd International Conference on Offshore Mechanics and Arctic Engineering (OMAE 2003)** consisted of seven symposia and a number of workshops. Some details of the symposia are described next.

Offshore Technology Symposium

Subrata Chakrabarti – Coordinator

This year again the increased deep-water offshore activities were well reflected in the contents of the papers submitted in the Offshore Technology Symposium of OMAE 2003. In particular the deepwater risers and the VIV problems have taken the lead. Floating systems of interest in deep water application such as, Floating Production and Offloading Systems (FPSO), SPAR, Tension Leg Platform (TLP), Spread Mooring Systems (SPM) constituted a major part of the technical sessions. However, the overall subject matter of the Offshore Technology Symposium is quite varied. It covers many areas of Offshore Mechanics including hydrodynamics, fixed structures, floating body dynamics, and structural and foundation design.

Many of these papers cover the theoretical, experimental aspects of the offshore technology. Many papers deal with the hydrodynamic aspect and structural aspects as well. Moreover, there is a good balance of the research and application oriented papers. Several sessions were devoted to the offshore structural developments. Three workshops within the offshore technology were

planned. They are titled “Deep Water Production Systems: Innovations and Technology for Future Developments in Mexico,” “Top Tensioned Risers” and “Offshore Geotechnics.” These workshops highlighted the latest technologies in these areas. The proceedings include papers that are of equal interest to the researchers and the practicing engineers alike.

Pipeline Technology Symposium

Terry Jones – Coordinator

We had a very interesting Pipeline Program at the OMAE Conference this year. There were more than 40 papers presented. Subject matter included Flexible Pipes, Thermal Effects and Flow Assurance, Pipeline Operations, Design and Analysis, Pipe Soil Interaction, and Mechanical Behavior.

One of the highlights of the Program was a special all day Workshop organized by Petrobras/ COPPE. This Workshop was organized by Renato Marques Corrêa da Silva of Petrobras and Prof. Segen Estefan of COPPE. COPPE is part of the Universidade Federal do Rio de Janeiro. The subject of this Workshop was the development of flow lines and risers in the Campos Basin.

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Another highlight was a special invited presentation by Prof. Jian Su of Universidade Federal do Rio de Janeiro summarizing recent developments related to flow assurance.

A new feature this year is that papers related to Flexible Pipes which are included in the Offshore Technology Symposium, the Materials Symposium, and the Pipeline Technology Symposium was scheduled together in sequential sessions.

In the preparation of this Program, considerable assistance was provided by participants in the Symposium. In particular, the assistance of Professors Segen Estefan and Murilo Vaz of COPPE, Renato Marques Corrêa da Silva of Petrobras, Professor Stelios Kyriakides of the University of Texas at Austin was invaluable.

Polar & Arctic Sciences & Technology

Walter L. Kuehnlein – Coordinator

The symposium promotes the understanding of the cold regions of the earth through Environmentally Sensitive Design, Construction, Safe Operation, Maintenance, and Integrity of both offshore and onshore structures in these fragile regions. It also includes sophisticated concepts for ice going vessels.

A special session dealt with ice related problems of the first drilling exploration in the Northern part of the Caspian Sea, which represents the biggest inter-continental basin in the world. The North Caspian is very shallow with a maximum depth of 10 m, especially the Eastern part has an average depth of only 3.3 m. In summer, the water temperature of the Northeast Caspian may reach 30°C or even more in the coastal shallows. In winter, however, the North Caspian is frozen for several months. Wind-driven ice movements may result in piling up ice layers and forming ice hummocks. Grounded ice hummocks may reach more than 12 m in height and 500 m in width.

Other Symposia Rounding out OMAE 2003

Safety & Reliability (Carlos Guedes Soares – Coordinator)

This symposium addressed probabilistic methods that allow the description of loading and strength variables, which constitute the basic information necessary for the assessment of the reliability of structures. There were sessions on: Extreme and Freak Waves, Probabilistic and Spectral Wave Models, Wave Crest Distributions,

Probabilistic Models of Forces and Motions, Reliability of Structural Components Offshore Structures, Pipelines & Floating Production Systems, Fracture and Fatigue Reliability, Reliability Based Maintenance and Inspection Planning, Safety Against Oil Pollution, Fire and Explosion Safety; Risk Analysis and Safety Management; Human and Organizational Factors among others.

Ocean Space Utilization (Hisaaki Maeda and Takeshi Kinoshita – Coordinators)

This symposium explored the next frontier of sustainable food, energy, materials, and land space for humanity.

Materials Symposium (Mamdouh M. Salama – Coordinator)

The technical areas covered in this symposium include Material Performance & Application, Fabrication, Integrity Assessment, Design, and Corrosion Control.

Ocean Engineering (R. Cengiz Ertekin and Daniel T. Valentine – Coordinators)

This symposium covers applications of technology in the areas of Wave Mechanics & Wave Effects, Marine Vehicles & Structures, Towed & Undersea Cables & Pipes, Mooring & Buoy Technology, Underwater Technology, Computational Mechanics, Geotechnique, Foundation Engineering, Coastal Hydrodynamics, Renewable Energy, Aquaculture, Instrumentation & Measurement, Model tests, and Marine Environmental Engineering.

For more details on the tracks and about the symposium coordinators for OMAE 2004, please go to the web site. It is at URL: <http://www.asmeconferences.org/omae04/>. This web site can also be reached from the OMAE Division web site at the URL: <http://www.oaie.org/>. □

Call for Papers

We would like to invite you to submit your abstracts for **The 23rd International Conference on Offshore Mechanics and Arctic Engineering** (OMA E 2004). It's easy! Just submit your 400 word (or less) text only abstract by October 13 to the OMA E website: <http://www.asmeconferences.org/omae04/>

OMA E 2004 will take place June 20-25, 2004 in Vancouver, British Columbia, Canada.

Message from the Outgoing Chair

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who serve as Symposium Coordinators for the seven symposia. I would also like to take this opportunity to extend my deep appreciation to all the session organizers, reviewers and authors, who have all been instrumental in making the OMA E conference happen. The dedicated work of Dr. Ernesto Heredia Zavoni and his colleagues in the local organizing committee also deserves big praise. Last, but not least, I want to express our deep felt thanks to the ASME staff in New York for their hard work, flexibility and positive attitude toward all our requests and demands.

In this newsletter you will also see that the 23rd International OMA E conference will take place in Vancouver, Canada, at the end June next year. So we are fortunate and proud to be able to invite you to yet another spectacular location for our conference. Under the chairmanship of Prof.

Sander Calisal of the University of British Columbia, the conference is in very good hands indeed, and we can look forward to yet another exciting forum for exchange of technical experience and knowledge and, not least, enjoy the company of our colleagues from around the world.

In closing, I want to express my deep sense of gratitude for having had the opportunity to serve on the EC of the OMA E Division for so many years. It has given me the chance of getting to know and work with quite a number of exceptional and dedicated people, that I am proud to call my friends. Serving on the EC has been a distinct pleasure throughout this time, and I have acquired insights and knowledge that I consider extremely valuable. On July 1st, I left the EC and became a member of the Advisory Committee of the Division, where I joined previous Division chairs. I look forward to continue to serve our membership in my new role as Advisory Committee member.

Incoming Chair's Message

Michael M. Bernitsas



Following the terms as OOAEE Division Chairs, served by our distinguished colleagues Professors Stephen Liu, Cengiz Ertekin, and Arvid Ness, I look forward to serving the Division with equal success. My term as Chair of the Division and the Executive Committee runs from 1 July, 2003 to 30 June 2004. I am optimistic, that with the new members elected to the Executive Committee (EC), listed in the table on page 2, and the experience of the members of the Extended Executive Committee (EEC), we will have a productive year. EEC includes EC, past Division Chairs, OMAE Conference Organizers and Symposium Coordinators. That is, in addition to the people in the table on page 2, EEC includes Drs. Subrata Chakrabarti, Denby G. Morrison, Mamdouh Salama, Carlos G. Soares, Walter Keuhnlein.

The OOAEE Division mission is to serve and promote our field of Ocean, Offshore and Arctic Engineering. As a group, we will continue projects we started in previous years to better serve our membership, such as

- Expanding our membership
- Attracting young engineers to the Division

- Organizing the annual OMAE Conference
- Maintaining our web page through ASME
- Supporting the Student Design Competition
- Electing new members to the EC
- Achieving a healthy balance and collaboration between industry and academia in all OOAEE activities.

We will also undertake some new initiatives, such as

- Appointing a representative of the Division for each country which participates in OOAEE activities to better approach and serve that country.
- Drafting a long-term strategic plan for the Division.
- Detailing some procedures established by the bylaws, such as decision and presentation of awards, student competition, OMAE budgeting, and OMAE site selection.

I look forward to working with the EEC to achieve our goals and seeing all of you at the 23rd OMAE Conference in Vancouver. □

What's Your Story?

The OOAEE Division is continuing to compile an oral history about Ocean, Offshore and Arctic Engineering. We want to capture personal histories and anecdotes from people involved in the industry. Do you have a story to tell about a project you worked on? If so, drop us a line. Stories will be posted on the division web site. The OOAEE Division's web site is located at the URL: <http://www.oaae.org/>. On this page there are links to the "Oral History Project". Send written contributions and photos to: John Robinson at Robinsonj414@asme.org. □

Membership in the OOAEE

John Bendo

For those of you looking to keep current with developments in the ocean and offshore field, the OOAEE Division is the right place to be. Through participation in the OOAEE Division and the OMAE conference you will have access to cutting edge information that will keep you ahead of the knowledge curve.

Besides learning about cutting edge technologies, we know you also need to do business. Maybe you want to network and make some new business contacts for yourself and your company. Another benefit of active division membership is the ability to interact and network with top people from around

the world in the ocean, offshore and arctic engineering fields. This networking can present great opportunities for you and your company. You can interact with vendors, service providers, researchers and academia. It could also add to your bottom line, because you may gain access to potential customers, suppliers and other business/professional associates.

You can begin by visiting the Division's web site at: <http://www.oaae.org>

So, if you haven't looked at the ASME Ocean, Offshore & Arctic Engineering Division lately...look again. □

Additional Grants Received from the ExxonMobil Foundation

Additional grants totaling \$2,000 have been received by the OOAEE Division. These grants were made as part of ExxonMobil's Volunteer Involvement Program. This program is designed to encourage ExxonMobil employees and retirees to participate in volunteer activities. These grants were made in recognition of OOAEE Division Executive Committee Member and OMAE Pipeline Symposium Coordinator, Terry Jones. Terry retired from Exxon in 1992. These grants will be added to a special fund which is intended to be used to enhance the OMAE Conferences. □

Vancouver, Canada



Professor Sander Calisal – Technical Chair



**23rd International Conference on Offshore Mechanics and Arctic Engineering
June 20-25, 2004**

Hyatt Regency, Vancouver, Canada

Conference website www.asmeconferences.org/omae04/



The 23rd International Conference on Offshore Mechanics and Arctic Engineering (OMAE 2004) will be held at the Hyatt Regency Hotel in Vancouver, British Columbia, Canada from June 20 to 25, 2004.

ASME International, the OOAEE Division, and the University of British Columbia are organizing the conference. The conference will draw together members of the scientific community, researchers, academia and the ocean engineering industry from around the globe. British Columbia has known oil reserves and the current government is considering lifting a moratorium on the development of oil fields.

The University of British Columbia is the host of OMAE 2004. Following on the tradition of excellence of previous OMAE conferences, OMAE 2004 will be held to advance the development and exchange of information regarding ocean, offshore and arctic engineering. It will be the stage for researchers, engineers, managers, technicians, and students, to discuss new and advanced technology developments and their applications in the industry. It will also help promote international cooperation.

More than 400 technical papers are planned for presentation at the conference in seven symposia: **Offshore Technology • Safety and Reliability • Materials Technology • Pipeline Technology • Ocean Space Utilization • Ocean Engineering • Polar and Arctic Sciences and Technology**

Also, industry workshops, special sessions and keynote lectures will be included in the technical program. National and international oil companies are expected to sponsor and participate in the conference.

Please visit www.asmeconferences.org/omae04/ on a regular basis for updates on the conference program, sponsors, and optional sightseeing and pre and post adventures as well as registration information.

Register Now and Pay by October 31, 2003 to WIN!

Register on-line at www.oaae.org for a chance to win five (5) complimentary nights at the conference hotel, the Hyatt Regency Vancouver.

Alternatively you can call 604-683-7718 or email OMAE2004@seatoskymeeetings.com to request a registration form.

Payment is required by October 31, 2003 to be eligible for the draw.

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