

In this issue

High Level Group on Competitiveness, Energy and the Environment page 3

First report published focuses on energy sector

Programme unveiled for ASME European Forum on Sustainable Engineering page 4

Claude Mandil, International Energy Agency, confirmed as a keynote speaker

Creating a manufacturing technology discussion forum page 6

A.I.Te.M. opens its doors and aims to develop research projects in partnership with industry and government

Get the most from your ASME membership page 7

New online reference tool for members

Contact us

ASME Europe info

Published by ASME Europe Office

Editor: Joanna Southward
Additional reporting : Dominika Hanshen
ASME Europe Office
Avenue de Tervueren, 300
B-1150 Brussels
Belgium
Email: info-europe@asme.org

The contents of this publication are compiled in good faith.
The publisher accepts no responsibility for omissions or errors.
© ASME Europe Office.

To speak to the Europe Office team, please contact:
Jeroen van Liempd – Director of European Operations
Email: vanliempdj@asme.org
Bertrand Mbiaffié – Community Coordinator
Email: Mbiaffieb@asme.org
Françoise Rajewski – Industry and Community Liaison
Email: rajewskif@asme.org

Tel: + 32 2 743 15 43
Fax: + 32 2 743 15 50

ASME Joins European Commission's Sustainable Energy Europe Campaign: Raising awareness of sustainable energy projects in Europe

ASME has become an official Campaign Associate in support of sustainable energy production and use, promoting involvement in the campaign amongst members.

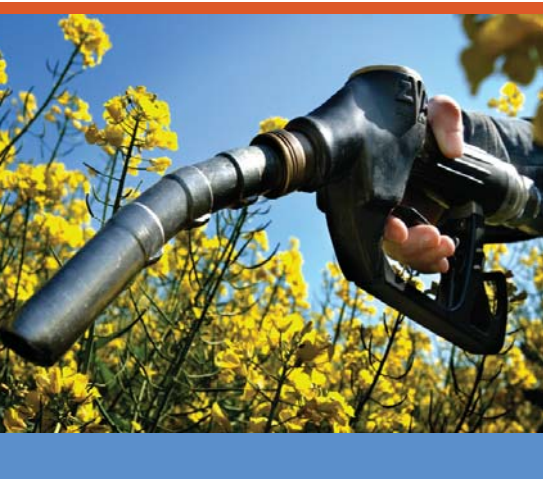
The importance placed by the European Commission on the policy areas of the environment, energy and competitiveness has been gaining momentum at a fast pace over the last few years, fuelled by the ambitious Lisbon Strategy for Growth and Jobs laid out in 2000. We have seen these policy areas develop from statements of intention into real policy initiatives that are bold, and occasionally controversial, but on the whole they are welcomed by industry and the public alike.

As legislation is developed and implemented, there is a vast range of initiatives and programmes



that are designed to support and promote the policy objectives. Sustainable Energy Europe is one such campaign, advocating for more intelligent use and production of energy.

Launched in 2005, Sustainable Energy Europe is a result of the various legislative measures adopted to further the market penetration of both renewable and energy efficient technologies.



This year, ASME joined Sustainable Energy Europe as an official campaign associate, demonstrating the association's commitment to sustainable engineering and support of sustainable energy production and use. The campaign is an initiative from the European Commission Directorate General for Transport and Energy (DGTREN), set up within the framework of the Intelligent Energy - Europe (2003-2006) programme, and aims to raise public awareness and promote sustainable energy production and use among individuals and organisations, private companies and public authorities, professional and energy agencies, industry associations and non-governmental organisations (NGOs) across Europe.

EU target of 20% in energy savings

The European Commission's Green Paper in 2000, 'Towards a European Strategy for the Security of Energy Supply', set out to ensure security of energy supply and to lessen the environmental impact of our energy usage and production as well as addressing energy saving techniques to reduce demand. One key objective is to double the consumption of renewable energy sources to 12% by 2010. Further to this, the Commission's Green Paper on Energy Efficiency 'Doing more with less' was adopted in June 2005 with the objective of harnessing cost effective energy savings for Europe equivalent to 20% of the EU's current energy use. Ultimately it is expected that these measures will

result in the reduction of energy imports, increased innovation and new job creation.

The Sustainable Energy Europe campaign aims to showcase and promote municipal pioneer programmes and projects in any field of sustainable energy production or use, to contribute to their recognition and to stimulate their replication across Europe. The campaign specifically supports and promotes activities in nine campaigning areas, including transport, buildings, lighting systems and appliances, and communities aiming at 100% renewable energy source supply. In the area of transport, the campaign aims to promote actions and policy measures that lead to the reduction of CO₂ emissions from transport in the fields of



alternative vehicle propulsion and fuels and also to consolidate the flow of knowledge on energy issues in the sector. The EU has set itself the target of a 20% substitution of traditional fuels in the road transport sector (gasoline and conventional diesel) by alternative fuels before the year 2020, with biofuels aiming for a 5.75% increase in energy consumption by 2010. Long term objectives are focused on the development of fuel cell technology, hydrogen and hybrid vehicles.

Buildings account for 40% of EU energy consumption

Legislation to improve energy performance in buildings, whether domestic, industrial or commercial, is already in

place with the Energy Performance of Buildings Directive which came into force in 2003, requiring new and existing buildings to have their energy performance certified. Buildings account for nearly 40% of EU energy consumption and the largest component of this is heating and cooling. The European Commission estimates that 20% of energy used in buildings could be reduced by installing technologies such as thermal insulation, efficient heating and cooling systems, improving air circulation facilities and integrating renewable energy production equipment.

Become a campaign partner

Europe is leading the way in implementing sustainable energy initiatives and the European Commission is committed to supporting and promoting successful solutions across the region. The countless projects and programmes in sustainable energy offer a vast range of best practice examples and the campaign offers these players the opportunity to increase awareness of new techniques, potentially leading to the large scale replication of European initiatives. By joining the campaign and the networking partnership across Europe, campaign partners can benefit from increased visibility, sharing experiences and debating the challenges faced. Campaign Partners include public and private stakeholders, industry, energy agencies, local, regional and national authorities, all of whom are committed to a sustainable energy project or programme, either in implementation or in the planning stage, intended to have a significant impact on the energy environment in the EU. ■

For further details on the Sustainable Energy Europe campaign and to find out how your organisation can become Campaign Partner visit www.sustenergy.org.



High Level Group on Competitiveness, Energy and the Environment

First report published focuses on energy sector

Earlier this year ASME Europe info (issue 2) reported the launch of the High Level Group (HLG) on Competitiveness, Energy and the Environment. Over the summer, the group published its first report along with some concrete recommendations for the energy sector.

The HLG was formed in order to provide consistency between policy and legislative issues, enabling a comprehensive approach to all parts of the energy chain and to the three objectives of security of energy supply, environment and competitiveness. The recommendations of the HLG should help achieve this. The main conclusions of the first HLG report focus on the functioning of EU electricity and gas markets, cost effective and predictable prices for energy intensive industries, energy efficiency and conservation and EU emissions trading scheme, (ETS). The key conclusions within the report include:

Functioning of EU electricity and gas markets

HLG calls for member states to improve the implementation of the current regulatory framework, focusing specifically on unbundling provisions and removing regulated tariffs distorting competition. There are also calls for member states to enhance the role and independence of national regulatory authorities, to improve the coordination among national transmission systems

operators (TSOs) and to harmonise the interoperability of gas systems.

Cost effective and predictable prices for energy intensive industries

Public authorities should review their initiatives for pooled generation, long term contracts and partnerships, while the Commission should provide guidance on the compatibility of long term downstream supply contracts.

Energy efficiency and conservation

There is still significant potential for improving energy efficiency and the HLG recommends that priorities for energy efficiency measures are established. HLG also recommends making full use of the Eco- Design Directive, e.g. minimum energy efficiency requirements for all energy using products, as well as further development of combined Heat and Power, and district heating.

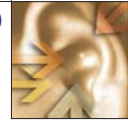
EU Emissions trading scheme (ETS)

There is a preference for a well-functioning ETS as a central instrument for reducing greenhouse gases. HLG proposes to improve the current system in three stages providing – efficient incentives for investment in low carbon technologies, limited impact on competitiveness of energy intensive industries competing on a global markets and an attractive ‘docking station’ for schemes in other big emitting countries after 2012.



For further improvements in the functioning of the ETS, the HLG recommends a full and urgent implementation of current EU legislation regarding the liberalisation of electricity and gas markets. The group also advised that ways to reduce the administrative burden for small installations to report and monitor emissions should be explored as well as cost-effective solutions to providing information on actual emissions to ensure market transparency. ▀

For more information visit
http://ec.europa.eu/enterprise/index_en.htm



Programme unveiled for ASME European Forum on Sustainable Engineering

Claude Mandil, International Energy Agency, confirmed as a keynote speaker

The education programme for ASME's first European Forum, to be held in Brussels 19-21 March 2007, has now been announced, confirming Claude Mandil, Executive Director of the International Energy Agency, as a keynote speaker.

The ASME European Forum on Sustainable Engineering is attracting a variety of high level speakers bringing together policymakers, industry and academia from across Europe. Over three days these communities will debate and exchange best practices on the priority areas for the European engineering world - Environment, Energy and Competitiveness. Organised by the

Early Bird Registration

Registration is now open with an early bird rate of EUR 850 for ASME members and EUR 950 for non ASME members for the three days, including attendance to the Gala Dinner.

Register at
www.asme.org/europeanforum

REGISTER BY 15 NOVEMBER AND BENEFIT FROM THE SPECIAL RATE OF ONLY EUR 800 FOR MEMBERS AND EUR 900 FOR NON MEMBERS.

ASME Europe Office in Brussels, the Forum will bring the communities together, creating a focal meeting point for the European engineering industry and encouraging interaction and dialogue on the latest trends, new technologies and policy implications.



Day 1 - Environment

Stavros Dimas, European Commissioner for the Environment, is the invited keynote speaker where the focus of day is 'Engineering technology and applied sciences – Applying creative solutions to build a sustainable environment.' There are four sessions running throughout the day and include topics such as the reduction of green house gas emissions and the management of water resources in Europe.



Day 2 - Energy

Day two opens with keynote speaker Claude Mandil, Executive Director of the International Energy Agency, and will concentrate on the pertinent topic of 'Engineering strategies – Striking the right balance for a sustainable energy future.' The sessions will address issues such as enhancing the security of energy supply, the importance of life cycle assessment and the energy hierarchy.



Day 3 - Competitiveness

The keynote speaker for the closing day of the forum is Mr. Gert- Jan Koopman, Director of Industrial policy and economic reforms, Directorate General for Enterprise and Industry of the European Commission. This final day will deal with the critical issue of 'Boosting competitiveness – How the European engineering community can fulfil its role.' Sessions will cover topics such as the triple bottom line, engineering opportunities within the European Commission's 7th Framework Programme as well as technology transfer and implementation issues.

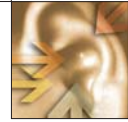
All the sessions during the Forum will discuss the regulatory context, policy objectives and the impact on the implementation of innovative technologies. At the end of each day speakers and delegates will come together for an interactive panel discussion on the outcome of the day's proceedings. Over the course of the Forum the debate will centre on future policy developments and initiatives to support the sustainable development of the European engineering industry, setting out the priorities, opportunities and challenges for sustainable engineering.

The full programme is now available on the recently updated website www.asme.org/europeanforum where details on all aspects of the forum can be found.

BRIDGING COMMUNITIES



The ASME European Forum
Brussels, Belgium
19-21 March 2007
on Sustainable Engineering



Confirmed Speakers and Panellists

Prof. J. Allwood	University of Cambridge, UK
Richard Ballaman	Federal Office for the Environment, Switzerland
Klaus Bonhoff	DaimlerChrysler AG
Dr. Stephen Burnley	Open University, UK
Prof. Ian Cluckie	University of Bristol, UK
Rei Fernandes	Technical University of Lisbon, Portugal
Oliver Greenfield	Sustainability Business Unit, WWF
Robert Havas	Agency of Industrial Innovation, France
Prof. I.S. Jawahir	University of Kentucky, US
Prof. Franco Jovane	Institute of Industrial Technologies and Automation, Italian Research Council
Claude Mandil	International Energy Agency
Simon Minett	European Association for the Promotion of Cogeneration
Andrew Warren	Association for Conservation of Energy, UK
Philip Wolfe	Renewable Energy Association, UK

Forum Exhibition

Running alongside the Forum, will be an exhibition, providing the ideal backdrop for industry to showcase the latest innovative engineering solutions and offering delegates networking opportunities. ▶

For more information on Sponsor and Exhibitor opportunities for your organisation please contact Françoise Rajewski, tel + 32 2 743 15 43 or email rajewskif@asme.org

First ASME European Student Challenge is announced Looking for innovation in transport

New poster competition offers opportunities for students to demonstrate knowledge and innovative approaches to alternative transport systems

ASME is putting engineering students' energy and competitiveness to the test with the first ASME European Forum Student Challenge. This new competition will take place during the ASME European Forum on Sustainable Engineering in Brussels, March 2007.

Sustainability is about striving to find the best outcomes for the human and natural environment, for today and for the future. Today's engineering students are tomorrow's engineers and as such, have a responsible role to play in the development of sustainable engineering for future generations. This poster competition is designed to encourage engineering students to develop innovative concepts and solutions that comply with the practices of sus-

tainable engineering on the topic of **Alternative Transportation Systems: New Approaches to Mobility**

Full time students, working on a project, thesis or dissertation that fits the challenge set are invited to enter the competition and demonstrate their ideas and achievements to a jury of experts.

ASME offers free entrance to the Forum for all students who have entered the competition. Transportation, lodging and other expenses to attend the Forum should be provided by the students themselves or the university. The ASME European Forum Student Challenge is open to students from all over the world who are enrolled at a technical college or university for the academic year 2006/2007.

Students must submit their proposal no later than 30 December 2006. Proposals must be individual, original and submitted in English on the official submission form available on the ASME Forum website. Submissions will be accepted from



a project, thesis or dissertation previously entered into a competition or submitted as part of coursework, provided the project has been developed a stage further since the last submission. A finalised project, thesis or dissertation can not be accepted. The written description of the proposal must not exceed 400 words. All proposals will be judged by a distinguished panel of volunteer experts from academia and industry. The competition prizes will be announced on the website soon. ▶

For further details and an application form visit www.asme.org/europeanforum



Creating a manufacturing technology discussion forum

A.I.Te.M. opens its doors and aims to develop research projects in partnership with industry and government

A.I.Te.M. is the Italian Association for Mechanical Technology and has been the home of Italian mechanical academics for 15 years. ASME Europe info caught up with Fabrizio Micari, President of A.I.Te.M. and Professor at the Mechanical Engineering Faculty, University of Palermo, Italy, about future developments and challenges in the manufacturing industry.

ASME Europe info: When A.I.Te.M. was founded in 1991, what was the motivation behind it and is this still valid today?

Prof. Fabrizio Micari: In the beginning A.I.Te.M. was an academic meeting point for university professors in the field of manufacturing. The initial membership of 60 professors, met once or twice a year to exchange ideas on research projects, teaching issues and to present the latest research results. Today, it is very important that we open our doors and cooperate with research centres, companies and other associations in the field of manufacturing. Our key objective is for A.I.Te.M. to become a manufacturing technology discussion forum for all parties working in this field. In particular, we are looking to forge closer relationships with industry that will enable us to launch some ambitious projects on a national and even international level. Ideally, this new approach would also include the involvement of the Italian government and the European institutions as fund providers.



Fabrizio Micari

ASME Europe info: Your main objective is to forge links between academia and industry. What steps has A.I.Te.M. taken so far and how successful have you been?

Prof. Fabrizio Micari: Firstly, A.I.Te.M. offers technology transfer opportunities through workshops on the most recent industry developments. Secondly, different sections have been created within A.I.Te.M. that are topic specific such as laser manufacturing. These sections organise seminars, inviting industry with a view to setting up joint research projects. The growth in our membership demonstrates our success so far. A.I.Te.M. is open to companies and individuals and today we have 300 members, with 50 new members this year including Trumpf, Electrolux and Elsys.

ASME Europe info: Why is it so important to foster cooperation between academia and industry?

Prof. Fabrizio Micari: The cooperation between academia and industry is not only important, but is absolutely necessary for the future of the industry. There is a huge demand for high level

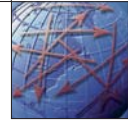
products in the field of manufacturing. Europe cannot compete in terms of production costs with the low cost countries such as India and China. Only high tech products will enable Europe to remain competitive for the long term in the global market place. Take Italy for example, for many years our economic strength was our cheap labour costs. This approach had to change by improving our research capabilities and enabling academia and industry to work together closely to turn the creative ideas into real projects.

ASME Europe info: What lessons can academia learn from industry, and vice versa?

Prof. Fabrizio Micari: We need to speak the same language. Sometimes, the academic approach to research projects is far too theoretical. Academia needs to switch over to a more practical way of thinking. In a few cases, we had lost touch with reality but the cooperation with industry will bring us back down to earth again. On the other hand, the industrial decision process is mainly determined by financial concerns. The desire to 'make money' cannot of course be given up but management must understand that research is pivotal to the success of a company. Efficient, in-depth research and development will allow high quality and innovative products to be developed that will be competitive in the global market place.

ASME Europe info: A recent workshop organised by A.I.Te.M. focused on industrial research topics. What concerns were raised during the workshop?

→ Continued on page 8



Get the most from your ASME membership

New online reference tool for members

ASME is a world leading mechanical engineering society with over 4,000 members across the EMEA regions. ASME membership brings with it a wide range of benefits including the latest addition of the newly created ASME e-Library.

The ASME e-Library is the new tool that allows members to access online collections of engineering reference books to find answers and practical solutions to daily on-the-job problems and questions. ASME members get free online access 75 interactive editions including:

- Mark's Standard Handbook for Mechanical Engineers
- Handbook of Materials Selection
- Mechanical Engineer's Reference Book
- Materials Selection Deskbook
- Advanced Engineering Dynamics
- Introduction to Fluid Mechanics

A complete list of all the books available can be found in the benefits section of the ASME website.

www.asme.org/Membership/Benefits/Professional/eLibrary.cfm

Meet your peers

Besides the new ASME e-Library, there are many more advantages to enjoy. Meetings, conferences and exhibitions are opportunities for members to meet and discuss current issues as well as make contacts, conduct business and renew old acquaintances while attending presentations by front-line researchers and top-industry professionals. The next ASME event in Europe will be the ASME European Forum on Sustainable Engineering, taking place in Brussels, Belgium in March 2007 (more information about the forum on p. 4).

Keep informed with ASME publications

Membership includes a subscription to Mechanical Engineering Magazine, ASME's flagship publication. ASME members can sign up free of charge to ASME News for the latest news, benefits and activities. Members across the EMEA region also receive the quarterly newsletter ASME Europe info, with updates on key regulatory issues and news from around the region.

In addition, ASME members are entitled to discounts of 20% and more on engineering publications and journals that will keep you abreast of the latest research and developments in the industry.

<http://catalog.asme.org>

Be an active part of ASME

ASME also offers many networking opportunities through committee participation with leaders from the industry, through engagement in one or more of ASME's 37 technical divisions, through section membership at the local level and online through the Communities of Practice (CoP).

ASME's Communities of Practice, is an online interaction tool designed with mechanical engineers' needs in mind. It offers links to helpful resources, industry news and, more importantly, solutions and ideas from peers. Access to the Communities of Practice site is also open to non-members widening the debate across the engineering community. Take a look at the latest discussions at www.cop.asme.org

Activities with local branches play an essential part in creating the sense of belonging that membership brings. There are currently ASME Europe Sections in Czech Republic, Denmark, France, Germany, Greece, Israel, Italy,

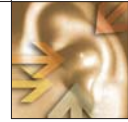
Russia, Serbia, Slovenia, Switzerland, Turkey and United Kingdom. All ASME Sections in Europe, Middle East and Africa can be found on the website with full contact details: www.asme.org/Communities/International/Europe. The website also hosts the popular Student Centre and Early Career Centre where a wealth of useful information and advice can be found at www.asme.org/Communities/Students. There are currently ASME Student Sections in Europe in Spain, Switzerland and Turkey.

Build your career: professional development

The ASME Continuing Education Institute (CEI) is recognised as a leader in training for the mechanical engineering community. It offers more than 200 professional development courses to keep members up to speed in the technology fast lane and help fill in any gaps regarding technical background while earning Continuing Education Units (CEU). The courses cover a wide range of topics including the following areas: Biotechnology & Pharmaceutical Technology; Boilers, Pressure Vessels & Piping; Chemical Essentials; Design, Manufacturing & Materials; Elevators & Escalators; Emerging & Alternative Power Technology; Engineering Management; Fluids & Heat Transfer; Plant Design and Construction; Power Generation; Nuclear & Turbines; Process Safety; Risk & Reliability Management. Additional education programmes include in-company training, self study courses, interactive courses broadcast by satellite and webinars.

www.asme.org/Education/Courses

For further information please visit www.asme.org/membership or contact the ASME Europe office on +32 2743 1543.



ASME Events Diary

All ASME events can be found at: www.asme.org/events

December 2006

Eighth International Congress of Fluid Dynamics & Propulsion

Conferences, Knowledge and Community

Dates: 14-17 December

Location: Sharm El-Shiekh, Egypt

More info: www.zu.edu.eg

January 2007

International Conference on Thermal Issues in Emerging Technologies, Theory and Applications

Dates: 3-6 January

Location: Cairo, Egypt

Contact: thetaconf@gmail.com

More info: <http://www.thetaconf.org>

Selection and Operation of Pumps for the Petroleum Facilities

Global Training, Institutes

Dates: 28 January – 1 February

Location: Cairo, Egypt

Contact: S. Salwa, salwa_s@aucegypt.edu

More info: www.aucegypt.edu/conted/engsrv

February 2007

Non-Destructive Testing

Global Training, Institutes

Dates: 18-22 February

Location: Cairo, Egypt

Contact: S. Salwa, salwa_s@aucegypt.edu

More info:

www.aucegypt.edu/conted/engsrv

March 2007

ASME European Forum on Sustainable Engineering

EARLY BIRD REGISTRATION OPEN

Dates: 19-21 March

Location: Brussels, Belgium

Contact: Europe-info@asme.org

More info: www.asme.org/europeanforum

ASME/IEEE Joint Rail Conference (JRC)

Dates: 14-16 March

Location: Pueblo, Colorado, USA

More info: www.asmeconferences.org/JRCI-CE07

April 2007

Special Working Group on High Pressure Vessels (SC VIII)

Committee Meetings, Codes and Standards

Dates: 2-3 April

Location: Florence, Italy

Contact: Sara Vasquez, VasquezS@asme.org

ASME B31.3 Process Piping

Global Training, Institutes

Dates: 15-19 April

Location: Cairo, Egypt

Contact: S. Salwa, salwa_s@aucegypt.edu

More info: www.aucegypt.edu/conted/engsrv

May 2007

ASME Turbo Expo 2007

Dates: 8-11 May

Location: Montreal, Canada

Contact: Stephanie Sear, sears@asme.org

More info: www.asmeconferences.org/TE07

15th North American Waste-to-Energy Conference (NAWTEC 15)

Dates: 21-23 May

Location: Miami, Florida, USA

June 2007

5th International Fuel Cell Science Engineering & Technology Conference

Dates: 18-20 June

Location: New York, USA

Contact: Raj Manchanda,

manchandar@asme.org

More info: www.asmeconferences.org/fuelcello7

ECOS 2007

Dates: 25-27 June

Location: Padova, Italy

Contact: John Bendo, BendoJ@asme.org

More info: www.ecos2007.dim.unipd.it

Continued from page 6

Prof. Fabrizio Micari: After the change in government in April this year in Italy, we decided to invite governmental representatives to discuss our future cooperation. In my opinion, the cooperation between industry, academia and institutions is going smoothly. The most difficult aspect is government funding. In Italy only 1,1% of the gross domestic product (GDP) is used to support research and this percentage has not changed over the last 10-15 years. In contrast to this, 2,7% of GDP in the US is allocated to research and development. In order to realise ambitious projects in industrial research the financial support of the government is necessary. The Italian market place consists mainly of small and medium enterprises (SMEs) who are not large enough to raise sufficient funding by themselves so they have to rely on government

grants. This support needs to be simple and the least bureaucratic as possible. It is pivotal for a project that government funds arrive in time. If we cannot complete a project on time because of a delay in funding, then this will mean an end to the project entirely.

ASME Europe info: Another point on the agenda of this workshop was the cooperation with other associations operating in the fields of mechanical engineering. Why did you choose ASME as one of your cooperation partners?

Prof. Fabrizio Micari: We are very proud of partnering with ASME and very excited to collaborate on several interesting projects. ASME opens a door for us to the international manufacturing world. Our participation in the upcoming ASME European Forum on Sustainable Engineering is especially important to us as "sustainability" is a key concern for A.I.Te.M.

ASME Europe info: As well as your role as president of A.I.Te.M. you are also a member of the ASME European Forum steering committee. What were your reasons for joining the committee and what do think are the challenges faced by industry, academia and policymakers in working together?

Prof. Fabrizio Micari: I was very happy to become a member of the steering committee since sustainability is such an important issue that the engineering world cannot possibly ignore it and therefore nor can our members. As we have already mentioned, the challenge in Italy is to achieve cooperation between academia, industry and policymakers and this assessment is still valid on the European level. Therefore our efforts to develop an effective forum on Sustainable Engineering are definitely well addressed. ▸

For more info: micari@dtpm.unipa.it