



NEWS

Italy Section

NEWS FROM THE ITALIAN SECTION OF ASME YEAR 2 – N^o 3 – JULY 2012

Election of the new Board of the ASME Italy Section for 2012 – 2014

On April 14th 2012 Members of the ASME Italy Section met in Rome, at the University “La Sapienza”, for the national meeting and to vote the Board for the period July 1st 2012-June 30th 2014. All members who presented their candidature received sufficient votes to be elected. After the nomination of the list of the members of the new board, the assembly of the Italy Section decided of confirming the roles already played by some members in the previous board.

The new Board includes:

- *Francesco Alicino* – Chair
- *Eugenio Brusa* – Vice Chair
- *Davide Castagnetti*
- *Marco Ceccarelli*
- *Luca Gaetani* – Secretary
- *Stefano Lenci*
- *Paolo Lista* – Treasurer
- *Francesco Martelli* – Honorary President

During the same election the Committee of the Auditors was confirmed:

- *Giovanni Cerri*, President
- *Francesca Sperandio*,
- *Filippo Segatori*

Perspectives and goals

During the meeting, the topical actions for the next year (2012-2013) were focused as follows:

A. Promoting **a better and deeper cooperation among the 250 and more Members** of the Section, arranging meetings and/or other social events with the Italian Members to be taken locally with the scope to have face-to-face contacts with the greater number of members, improving the relationships of the Section with the local communities, gathering the members’ suggestions and recommendations and find the best way for the Section to satisfy their expectations.

B. Continuing to work on events as workshops or conferences organized in cooperation with Industry, Societies and University In this frame, the working **group of “Mechatronics and Robotics”** coordinated by vice chair Eugenio Brusa and Emanuele Guglielmino (ASME Member), started with the organization of the workshop **“Robot-endipity”**, in cooperation with the Italian Institute of Technology (IIT) and focused on the intrinsic safety of robots used in domotics, human interfacing and health

care and the standards covering the related technical issues.

C. Opening a **student group** even through the availability of Students Alberto Mazzoleni and Michele Piovani, to support a new issue of the **Early Career Forum (ECF)** in Italy and the constitution of a **Student Section**.

D. Cooperating with District H to the organization of the next **ASME Biennial Conference on Engineering Systems Design and Analysis** (ESDA 2014) to be held in Copenhagen on July 2014.

A key point: the face-to-face meeting of District H Operating Board in Copenhagen

Chair Francesco Alicino attended the District H Operating Board face-to-face meeting held in Copenhagen on May 12-13, 2012. It was a key meeting because of the change of District H leader: since Bernard Gindroz was retiring by July 1st leaving to Memis Acar of the United Kingdom & Ireland Section, leader elected.

This meeting represents the annual appointment for the District H Board members to meet face-to-face, review all together their sections activity and define the strategy for the incoming year. This meeting typically follows a set of preparatory teleconference during which periodically the District H Board members discuss the district's activity. This year the following national sections and groups were represented:

- ASME Europe Office by Jeroen van Liempd;
- ASME Headquarters by Marian Heller and Ty Booker;
- Denmark by Svend Larsen;
- District H by Bernard Gindroz and Memis Acar, leader elected.
- France by Yannick Gindroz;
- Israel by Yoram Halevi;
- Italy by Francesco Alicino;
- Russia by Victor V. Kostarev;
- Slovenia by Leon Cizelj;

- Spain by Agustín Llaguno Cárdenas;
- Students by Bastian Gindroz and Alex Reg Scott;
- Switzerland by Jaroslaw Szwedowicz;
- Turkey by Hojin A
- United Kingdom and Ireland by Helge Wuerdemann.

During the meeting the national representatives had the opportunity to share and compare their experiences and develop suggestions and recommendations regarding the support that the Europe Office and the Headquarters can provide. A central point of the meeting was represented by the SWOT analysis of each section requested by the leader elected, Memis Acar, and a deep discussion on the improvements of the strategic action of the District H and ASME offices.

The Italy Section highlighted the following main topics:

- In spite of the strong motivation of some volunteer members (Directing Board, Auditors, Students), there is still a reduced number of members participating to the section life. This is an aspect where the Board has to work. New entries on Board can give positive impulse on this respect.
- Good relationships with industry are an element of strength for the section as well as the excellent relationships with other national engineering associations.
- An element of weakness and a potential threat is given by the funds transfer from HQ that is very limited and represents a limitation in planning the section activities.
- In order to solve the issue of participation, the section is planning to cover with a greater intensity the territory, by arranging meeting area by area in order to stimulate members participation reducing the issue of moving in another place.

- Improving the involvements of students and young engineers by supporting ECF and student group constitution.

Italy Section has also highlighted some aspects that need to be solved by the Headquarters and by District H, namely.

- ASME HQ should increase and improve support to section activities, in particular the ones of new constitution that have their action plans strongly reduced by the lack of funds. A way to provide a financial support should be beneficial as soon as a new section starts.
- The merit funds mechanism is positive if it is not the only mean to get funds, since they are obtained after the activity is performed, while it is necessary to have some funds to perform the activity.
- The ASME HQ is demanding too much effort to volunteers to prepare a surplus of forms, templates, surveys, questionnaires giving no evidence of the real benefit gained in doing that. Sometimes ASME looks to be excessively bureaucratic.
- It is critical the ASME HQ understand better the peculiarities of national situations and the differences with USA sections. In this perspective a vital role could be played by ASME European Office in Brussels.
- DH even though has greatly improved the penetration and the action in these last years has still some step to do, especially in extending the involvement and participation of sections in joint activities. Other aspects to be improved regards the lack of reports (minutes of meeting) after each meeting so to provide an effective way to follow up and the District website that should be updated more frequently.

A Special Event: the ASME ESDA 2012 held in Nantes from July 2nd – 4th 2012



Nantes, Cité des Congrès, ESDA 2012.

A great issue of the biennial ASME ESDA (Engineering Systems Design and Analysis) Conference was recently held in Nantes (France). It looked very successful for the number of attendees, of the papers presented and for the initiatives performed in cooperation with the Student branch of the ASME. According to Conference Chair professor Alain Bernard, more than 900 papers were submitted for publication and presentation to the conference. Reviewers activity was very tough and the number of accepted works was up to 425. Quality of papers and presentations was accordingly very high and appreciated by the audience of almost 500 persons.

ESDA is becoming more and more the key meeting selected by the ASME International for Europe. Improving its impact and increasing the quality of contents are conformingly the goals of ASME for the next issues, according to Marc W. Goldsmith, 131st President of ASME Int. since July 2012, who opened the conference.



Welcoming speech of President Marc Goldsmith in Nantes at the ESDA 2012.

A tighter cooperation among engineers operating within firms, academy, governmental and public institutions is a key goal to overcome the worldwide crisis as it was demonstrated during the plenary lectures by Dr. Didier Guedra-Degeorges, from EADS-IW, who discussed about the “Aerospace Challenges & subsequent critical simulation needs for Virtual Vehicle Testing & Integration” and by Prof. Pierre Ladeveze, LMT - ENS CACHAN, who demonstrated in his nice speech on “The simulation-driven structural design: fantasy or reality?” how and when university can cope the needs of industry in developing new effective products. Moreover, Prof. Hoda El Maraghy, Dean of the University of Windsor (Canada) demonstrated that current restrictions excite to think about a suitable strategic approach to the manufacturing of innovative products, based on modular manufacturing systems and modular products, appearing as an assembly of few modules, variably combined in their intrinsic “complexity”. In addition Prof. El Maraghy clearly pointed out in her speech “Variety and complexity of products and manufacturing systems” that engineer is encouraged to handle the “complexity” of some systems and avoiding the “complications” of a bad design.



District H leader Memis Acar, during his presentation of the ASME goals and organization

District H was completely represented by its leaders who attended the conference and added their own contribution. The new leader of District, Memis Acar, was deeply involved in the organization of some sessions on Robotics, but evenly in the Students competitions of the Old Guard Program, together with Bastian Gindroz, chair of ASME’s Student District Operating Board (SDOB) for District H and Bernard Gindroz, who left his district leadership on July 1st.

A key issue of the meeting was the Student Design Competition (SDC) and Professional Development Conference (SPDC), which was held in the same town of Nantes, on July 3-5 2012. It was a great opportunity of sharing the audience of professionals and senior engineers who attended the ESDA Conference and the students and young engineers who basically attended the SDC/SPDC conference at Cité des Congrès and Ecole de Nantes.



District leader Bernard Gindroz and his son Bastian Gindroz, chair of SDOB at the student completion.



Italy Section vice chair Eugenio Brusa, chairman of Session 4.3 within Applied Solid Mechanics at “Machine de l’Ile” which hosted the ESDA 2012 networking dinner.



During the SDC/SPDC Conference several students coming from Italy, UK, Germany, France, Turkey and Israel, were involved in some competitions promoted by the "Human Powered Vehicles Challenge" and "Engineering For Change" of ASME. The **Old Guard Oral presentation competition** consists of a presentation of a design action developed from a preliminary excitation by

groups of students who worked together to outline a feasible product or system fitting the requirement of the main subject proposed. The *Student Design Competition* was an exhibition of innovative vehicles designed by students and based of wide range of propulsion systems.



Students at work.

A very nice competition was organized and managed by Italian Students Alberto Mazzoleni and Michele Piovani who worked within the frame of the SDOB District H and the “Engineering for Change” to the *Rapid Design Challenge*, based on a call for ideas to solve the problem of water resourcing and storage in underdeveloped countries and continents.



Alberto Mazzoleni and Michele Piovani present the Rapid Design Challenge rules



The attendees of the SDC/SPDC together with Memis Acar, Bernard Gindroz and Alain Bernard.

Next edition of ASME ESDA 2014

Next edition of ESDA will be held on 2014 in Copenhagen, as the District H leader, Memis Acar, announced during the networking dinner in Nantes.

ASME Fellow Membership to Prof. Marco Ceccarelli



Marco Ceccarelli, ASME Italy Section Board member and Professor at the University of Cassino, received the Fellowship ASME during a ceremony, on Monday 25th June 2012, Aula Magna 'Luigi Papa' of School of Engineering, University of Cassino. Marco joins to other five Italian ASME Members who received in the past the same rank of ASME membership.

Our warm congratulations to Marco !

Next events promoted by ASME and ASME Italy Section

The ASME Italy Section provided its patronage and promotes the attendance of the Members to the following events:

21th International Workshop on Robotics in Alpe-Adria-Danube Region
RAAD 2012

10-13 September 2012: Naples, Italy
www.unina.it/raad2012



WORLD TRIBOLOGY CONGRESS 2013 - THE 5th WORLD TRIBOLOGY CONGRESS WILL BE HELD IN TORINO (ITALY) ON SEPTEMBER 8-13, 2013.
IT IS ORGANIZED BY THE ITALIAN TRIBOLOGY ASSOCIATION, AIT

ASME provided sponsorships to the following Workshop:



Venice, October 10-11, 2012

MTB award to Italian ASME Member Emanuele Guglielmino

The Italian ASME Member and Co-coordinator of the ASME Italy Section Workgroup on Robotics and Mechatronics, Emanuele Guglielmino of IIT (Italian Institute of Technology, Genova), on June 21 2012 won the MTB Startup School of the "Mind The Bridge Foundation" with his project called "Microturbine", a patented coin-size high speed microturbine able to harvest energy, exploiting airflow to produce electric energy with applications ranging from pipeline monitoring to web farm servers power supply back up.



A view of the Emanuele's idea



Emanuele Guglielmino

Our warm congratulations to Emanuele !

To learn more about the ASME Italian Section and to give your suggestions please visit:

www.asme.it