



FEDERATION OF EUROPEAN  
MATERIALS SOCIETIES

A faint, orange outline map of Europe is positioned in the background, spanning the middle of the cover. The map shows the coastlines and major landmasses of the European continent.

# Annual Report 2013/14

The bridge between Science,  
Engineering and Technology

# FEMS - The Federation of European Materials Societies



## ABOUT FEMS

FEMS (Federation of European Materials Societies) is a not-for profit association of 28 European materials societies in 23 different countries. The size of these societies varies enormously, from fewer than 50 to more than 10,000 members. The total number of materials scientists and engineers represented by the FEMS Member Societies is approximately 25,000. However, most of the societies have fewer than 500 members and inevitably have limited influence. Perhaps the most important aim of FEMS is to overcome the fragmentation of the materials science and engineering discipline in Europe in terms of countries, specialities and disciplines. In contrast with the USA, where there are relatively few professional materials societies, Europe has over thirty (16 in Germany alone).

## THE ORIGIN OF FEMS

In June 1986, The Institute of Metals in London (IOM), the German Society for Metals (DGM) and the French Society for Metallurgy (SFM) agreed the need for European metals and materials societies to act more in concert and behave in a generally more “European” manner. After a few meetings, a memorandum of understanding to form the Federation of European Materials Societies was signed in January 1987. The first FEMS General Assembly took place in Paris on 11 December 1987, with IOM, SFM and DGM as the three founder members. In the years that followed, membership of FEMS grew steadily, and by 1993 there were fourteen full members in thirteen different countries.

## HOW FEMS ACHIEVES ITS OBJECTIVES

The Federation is probably best known for its series of FEMS EUROMAT conferences. These have been held in different venues every two years since the first took place in Aachen during 1989 with 800 delegates, the last Euromat event in 2013 attracted in excess of 1,800 delegates from 48 countries. Almost all aspects of materials science and engineering were covered in seven major topic areas: Functional and Nano Materials; Biomaterials; Structural Materials; Processing; Characterisation and Modelling; Applications; Education.

**EUROMAT**  
European Congress and Exhibition on  
Advanced Materials and Processes

# Towards a strong European materials community

## REPORT FROM FEMS PAST PRESIDENT EHRENFRIED ZSCHECH

After my two-years term as president of FEMS, I would like to report about some of the major achievements of the FEMS Executive Committee during the period 2012/2013. We focused our activities on the following three key topics: (1) Increase visibility of the key role of materials in Europe, in collaboration with other societies like E-MRS as well as committees and representatives of the European Commission, (2) Improvement in the continuity of the coordination of materials-related topics in the periods between the EUROMAT conferences, with the particular goal to strengthen European networks between universities, institutes and industry and to extend the knowledge transfer using new forms of collaboration, (3) Formation of a strong Executive Committee team of leading experts from Materials Science and Engineering and close collaboration with the national member societies.

Since “Advanced Materials” is one of the Key Enabling Technologies (KETs) which are essential for Europe’s innovative strength and competitiveness, and for the development and roll-out of sustainable products and services, I provided the statement in the FEMS Newsletter 01/2012 that FEMS will trigger the dialogue between representatives from academia, industry and politics. From my point of view, the most important achievement during the previous two years was the convergence of activities and synergies between major stakeholders of the materials community in Europe. The formation of the Alliance of Materials (A4M) in 2013 and the close collaboration between the European materials societies FEMS and E-MRS and the technology platform EuMaT within this alliance is definitely one of the best practices and success examples. Already at the Industrial Technologies Conference in Aarhus, Denmark, in June 2012, these partners engaged themselves in the efforts to realise a stronger, more competitive, and sustainable economy in Europe. At the end of this conference the Aarhus declaration was formulated and signed by a range of industrial partners, and co-signed by the partners mentioned including FEMS. The demand of improved strategic partnerships between industry and research, to take research closer to market introduction by working on applied research and prototypes, was the topic of the FEMS talk that I presented at this conference.



Ehrenfried Zschech, Division Director at Fraunhofer Institute for Ceramic Technologies and Systems Dresden, as well as Honorary Professor for Nanoanalysis at Technical University Dresden and Honorary Professor for Nanomaterials at Brandenburg Technical University Cottbus-Senftenberg



At the conference Industrial technologies 2012 the Aarhus declaration was formulated and signed by a range of industrial partners, and co-signed by the partners FEMS, EMRS, EuMat and European Commission. From left: R. Martins, E. Zschech, M. Falzetti, H. von Bose



From left : A. Cavaleiro,  
E. Zschech, A. R. González-  
Elípe, P. Fernández, F. Mücklich,  
P. M. Vilharinho, F. Soldera

#### Ehrenfried Zschech

Vice President 2010-2011

President 2012-2013

Past President 2014-2015

At a workshop on “Materials for the 2020 Challenges” in Brussels, Belgium, in July 2012, we discussed the role of materials as a key enabling element for boosting the industrial and technological growth in Europe. This workshop was organized by STOA (the Parliament’s own Science and Technology Options Assessment body), together with four organizations representing the science and technology materials community at European level: E-MRS, FEMS, EMF, EuMaT. As one of the conclusions, materials research and innovation were confirmed as crucial elements in supporting and driving future European industrial growth.

I am very glad to be able to report two successful conferences: EURO-MAT 2013 in Sevilla, Spain, organized together with SOCIEMAT and SPM, and JUNIOR EUROMAT 2012 in Lausanne, Switzerland, supported by DGM. Both conferences provided attractive meeting points for materials scientists and engineers to exchange their latest news in research and to network with colleagues from academia and industry. In addition, we started successfully a new FEMS initiative, the so-called European Advanced Training Courses. The first courses, held in Dresden, Germany, and Warsaw, Poland, were co-organized by the respective national societies DGM and PTM. Experienced lecturers provided their knowledge in the fields of nano-scale and composite materials. All these activities demonstrated an atmosphere of inter-society partnership that brings materials researchers together.

I would like to thank the representatives of the 28 national member societies of FEMS, the members of the FEMS Executive Committee, many materials scientists and friends for the excellent collaboration during the period of time when I acted as president of FEMS.

I am looking forward to continue the dynamic, proactive dialogue within our European community of materials scientists and engineers.

Yours

Ehrenfried Zschech

# FEMS 2013

## past, present and future

### REPORT FROM FEMS PRESIDENT MARGARETHE HOFMANN-AMTENBRINK

For the first time since its creation in 1987 FEMS has prepared a more extensive annual report, which will be presented at the General Assembly in Lausanne on July 25, 2014 and published on the Webpage. It is the aim of the Executive Committee to better serve the materials community with information about our activities and to give the 28 member societies a platform to present themselves. FEMS does not only represent more than 25,000 researchers, engineers and managers active in materials science and engineering but it represents also the huge variety of cultures and languages, which makes Europe so rich on the one hand but makes it necessary to either learn many languages or to express in only one, which has become most important in the academic and industrial world – English. Our report will be in English only and we kindly ask you to visit the various web-pages of our members' societies to find more information in their original language.

On the following pages we would like to present you an overview – *“a hindsight about the past, insight into the present and a foresight for the future”* and we hope you will enjoy reading this edition.

Yours

Margarethe Hofmann- Amttenbrink  
FEMS President 2014-2015

***“FEMS has prepared a more extensive annual report, to better serve the materials community with information about our activities.”***



Margarethe Hofmann-Amttenbrink, CEO at MatSearch Consulting Pully Lausanne and CEO of the Swiss Foundation for Rare Metals (ESM). For more than 25 years she has been involved in organising and managing national and European research programs & projects in materials science and engineering, manages associations like the ESM and is consulting industry.

Vice President FEMS 2012 – 2103  
President FEMS 2014 – 2015



# FEMS & EUROMAT

## a success story for 27 years



The EUROMAT 2013 Committee with the rector of Universidad de Sevilla, Antonio Ramírez de Arellano in the middle.



Since the existence of FEMS the materials world has changed, nanomaterials became a hype and hope for many applications in the various sectors, the various forms of carbon were investigated with a new push in graphene research. Sustainable concepts of less energy consumption and problems with nuclear power plants pushed the renewable energy agenda forward, the transport became safer and cars will soon be able to move without a driver, the new generations of cars will be able to slow down or stop in case of a hindrance or if the car in front comes too close. New airplanes are capable to transport more than 800 passengers and the high speed trains now designed and produced in China will have a speed of more than 400 km/h. Our communication is so fast, that it becomes difficult to answer all our e-mails, sms, cloud messages, we are linked with the world by social networks helping us to advertise our research results or our products and services much quicker and to the right community. Over the last few years we have started to analyse our resources in more detail since many of our market innovations are based on critical elements. Sometimes they have to be imported under difficult geopolitical conditions and finally we have to take into account the “urban mining” - the recovery of such elements.

Nearly all of the aforementioned innovations which make our life safer and easier are based on new results in materials research and engineering. The outcome of materials research globally is so high, that it is impossible to have more than an overview of a small field of interest. Reading publications is one option to be at the forefront of science and engineering, another, more lively option is to attend a conference and to exchange with colleagues and by this to “think outside of the box” and see “the bigger picture” of materials activities in Europe. With its creation, FEMS had started to organise the EUROMAT Conference series, starting in Aachen in Germany in 1989. Since then the FEMS member societies organise a EUROMAT Conference every two years in one of the European member countries. EUROMAT 2013 took place in Seville, Spain, from the 8th to the 13th of September 2013. One of the largest and most important meetings of the European materials science and engineering community,

this conference was co-organised by two national member societies, the Spanish and Portuguese Materials Societies (SOCIEMAT and SPM). The conference was attended by more than 1800 participants from 48 countries with many young investigators and engineers. About 39 exhibitors presented their products and services in the charming surroundings of the Barceló Congress Centre with lots of networking space for having a coffee with colleagues to discuss subjects such as new research projects. As in previous years the conference was a huge success: well organized with an excellent scientific program covering the whole spectrum of materials and applications including structural and functional materials and materials for various application including energy, health, environment and many more.

As partner of the European Project MatVal, FEMS opened a proactive dialogue within the European community. Herbert von Bose, Director Industrial Technologies at DG Research and Innovation of the European Commission accepted the invitation to EUROMAT 2013 and informed in his presentation “Horizon 2020 - Materials, a Key Driver of Innovation” about the follow-up programme of FP7. Materials are again very present in the various sectors of the project calls. This talk was given in the new series of side events which were held every day at lunch time. Another such session dealt with “the role of European research and technology organisations in promoting the technology transfer of materials technology” was a combined approach of FEMS and its EU project MatVal. These new side events were so successful that they will continue to be included in future EUROMAT conference programs. Behind each successful event are very engaged and highly motivated people. The success of this great materials meeting in Sevilla was based on very good organisation, managed by Professor **Paloma Fernandez-Sanchez**, Head of the Management Committee of EUROMAT 2013 and by Professor **Frank Muecklich**, Scientific Chair of EUROMAT 2013. Many people in the various committees gave their support and we like to thank them again for their huge engagement at this conference. The next conference, EUROMAT 2015 will take place in Warsaw, Poland and will be organised by the Polish Materials Society, PTM.

Since 1989 EUROMAT conferences have taken place every two years organised by FEMS member societies in different countries of Europe: Aachen, Germany (1989), Cambridge, England (1991), Paris, France (1993), Padua, Italy (1995), Maastricht, NL (1997), Munich, Germany (1999), Rimini, Italy (2001), Lausanne, Switzerland (2003), Prague, Czech Republic (2005), Nuremberg, Germany (2007), Glasgow, Scotland (2009), Montpellier, France (2011), Seville, Spain (2013), Warsaw, Poland (2015)



Herbert von Bose, Director Industrial Technologies at DG Research and Innovation of the European Commission

# FEMS Awards 2013 – Outstanding Contributions in Materials Science, Technology, Innovation and Education



Michael Rappaz

## FEMS EUROPEAN MATERIALS MEDAL IN 2013

The FEMS European Materials Medal is the most prestigious award of our association. It is awarded in recognition of outstanding contributions to the field of materials science and engineering. Candidates for the award may be nominated by the national member societies and by the Executive Committee of FEMS. The first recipient of this award was Michael F. Ashby, emeritus professor in the Department of Engineering at the University of Cambridge, a world-renowned authority on engineering materials and author of several best-selling textbooks. In 2013, **Michael Rappaz**, full professor and head of the Computational Materials Laboratory at Ecole Polytechnique Federale de Lausanne (EPFL), received this award. He inspired the participants of EUROMAT 2013 in Seville with an enthusiastic plenary talk about fundamentals of materials science, covering macroscopic and microscopic aspects of metallic materials.



Johan Martens

## MATERIALS INNOVATION PRIZE

The Materials Innovation Prize is given to distinguished scientists or engineers in recognition of outstanding contributions to technological development and innovation based on exceptional contributions in materials science and engineering. **Johan Martens**, Prof. at University of Leuven, Belgium, Head of the Department of Microbial and Molecular Systems (2005-2010) and also the Head of Centre of Excellence in Catalytic Science (2005-2009) at University of Leuven, Belgium received this award for his demonstrated expertise in synthesis and application of functionalized nanoporous materials in catalysis, adsorption, molecular separation and controlled release. 45 patent families were granted to Prof. Martens. Several of these research inventions have been implemented in commercial applications or commercialized by spin-off companies founded by him.



## MATERIALS SCIENCE AND TECHNOLOGY PRIZE

This prize is awarded to young European materials scientists or engineers in recognition of a significant contribution to a field of Materials Science and Engineering. In 2013 **Michel Perez**, Professor University Lyon/INSA Lyon, France received this medal for his work on precipitation phenomena in metallic systems where he developed activities with ferrous systems (martensite tempering, precipitation of copper in steels and of carbonitrides in steels) and aluminium alloys. He is currently working on atomic scale techniques to model precipitation by coupling Molecular Dynamics with kinetic Monte-Carlo tools.

## HONORARY FEMS MEMBERSHIP FOR BILL CLYNE

The prestigious honorary membership of FEMS was conferred to **Bill Clyne**, Professorial Fellow in the Mechanics of Materials at the University of Cambridge in 2013. This honorary membership was awarded in recognition of his truly outstanding contributions to the field of Materials Science and Engineering and for his commitment and activities to strengthen the European materials community, particularly within FEMS. Bill Clyne is an outstanding materials scientist with high international reputation, who combines excellent science, outstanding teaching abilities, scientific and social leadership as well as engagement in the European materials science scene. Bill Clyne served in several positions in the FEMS Executive Committee from 2004 to 2011, being President of FEMS 2008/2009. He was Scientific Chair of EUROMAT 1991 in Cambridge, co-chair of EUROMAT 2005 in Prague and of EUROMAT 2007 in Nuremberg, and four times Topic Coordinator at EUROMAT conferences.

## THE FEMS LECTURERS 2012 - 2013

With the FEMS Lecturers Awards, FEMS sponsors selected young materials scientists to lecture throughout Europe as “ambassadors” of the materials science community. Lecturers are selected based on the significance of their work and their ability to communicate effectively. In 2013 **Kislon Voitchovsky** from Ecole Polytechnique Fédérale de Lausanne, Switzerland and **Vincenzo Palermo** from University Bologna, Italy received this award after having presented their research at the FEMS Lecturer Award Session at Junior Euromat 2012 in Lausanne and were elected as being the best from 7 presentations.



Michel Perez



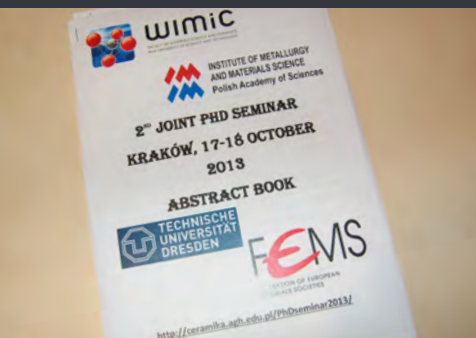
Bill Clyne



Kislon Voitchovsky

Vincenzo Palermo

# FEMS European Advanced Training Courses



After having started successfully with a European Advanced Training Course in 2012, a second course on “Nano-scale Materials and Advanced Characterization Techniques” was held in 2013 in Dresden (Germany). This new form of training course was again organized by the German Society of Materials Science (DGM) with support of FEMS and in collaboration with the Dresden Fraunhofer Cluster Nanoanalysis (DFCNA). It offered 13 lectures given by experts from industry and science in the field of high resolution analytical techniques for characterization of nano-scale materials and structures. FEMS will continue to organize such courses jointly with national materials societies and a course in Dresden is again foreseen on 22 - 24 October 2014 at the Dresden Fraunhofer Cluster Nanoanalysis (DFCNA) with the topic “*Nano-scale Materials Characterization-Techniques and Applications*”.

Suggestions for other topics and initiatives for organizing such courses are welcome! (More information : see FEMS Newsletter 2014).



Nano-scale Materials and Advanced  
Characterization Techniques.  
Dresden, Germany

Composite Materials  
Warsaw, Poland

# FEMS - a Networking Federation in Europe and USA

## MATVAL - A EUROPEAN PARTNERSHIP

In 2012, FEMS became a partner in the 7th Framework European Project MatVal. The Value Chain concept is regarded as the key element driving synergistic benefits through a common path which integrates players, resources and strategies starting from the fundamental aspects of materials science up to the industrial system that produces and/or transforms materials into valuable products. MatVal started with a Conference in Rome on 7th and 8th February 2013 introducing the goals and methodologies of the project to the relevant interested parties, and at EUROMAT 2013 one of the sessions was dedicated to the MatVal project. In the meantime a further workshop in Brussels was held in June 2013 to elaborate a “Common Strategy for Boosting European Materials Innovation” by identifying material innovation drivers, defining generic types of material innovation and especially in pointing common challenges in bringing material innovation to market. Subsequent workshops were organised in March and May 2014 on “Materials by Sectors” to get a common understanding of state-of-play, key actors and interests and to explore potential and critical issues for material-related activities in proposed sectors under Horizon 2020 and to connect and activate the community in the materials for the sectors took place. The workshop in Lille in May discussed a survey on barriers for materials innovation. The project will be finalised in September 2014 with

a special session at the LETS Conference (Leading Enabling technologies for Social Challenges; 29.9.-1.10.2014; [www.lets2014.eu](http://www.lets2014.eu)) in Bologna, Italy. By the active partnership of FEMS in this project together with the other partners from the European Industrial Platforms and E-MRS the sectors addressed were able to be identified and selected on the base of relevance that such sectors have in respect of various running EU policies. However, such sectors are not exhaustive for the scope, interest and future action of A4M. These sectors have to be regarded as first “example” sectors for establishing general methodologies. Finally, an Innovation Action Plan including policy recommendations will be prepared, and some initial pilot implementations of the most promising stakeholder actions will start. More information is available at the MatVal web page: <http://www.matval.eu>.



Workshop on “Common Strategy for Boosting European Materials Innovation”, June 2013  
Brussels, Belgium





MatSEEC Committee Meeting 2012  
Leuven, Belgium



FEMS supports activities such as “Metallurgy Europe” focused on important materials fields and showing the value of materials science and engineering for the industrial sectors. FEMS intends to play an important role in a new Expert Committee when producing scientific forecast reports and strategic and science policy recommendations.



Experts Meeting 2013, Paris, France  
With FEMS Past President E. Zschech and  
Executive Committee Member P. Zieba

## MATERIALS SCIENCE AND ENGINEERING EXPERT COMMITTEE (MATSEEC)

MatSEEC is a Temporary Expert Committee of the European Science Foundation (ESF), acting as an independent science-based committee of over 20 experts active in materials science and its applications, materials engineering and technologies and related fields of science and research management with a task related term of 5 years which will end in 2015. FEMS is one of the paying member societies and supports the activities with FEMS expert Prof. Dr.-Ing. Pedro Dolabella Portella, Head of Department Materials Engineering at the Federal Institute for Materials Research and Testing, BAM at Berlin Germany. He was FEMS President for 2010 - 2011. The Committee delivers the various foresight reports and scientific advice on issues related to Materials Science and Engineering and matters of concern to the related scientific communities which had to be delivered to the ESF as well as to European National Agencies and Ministries, institutions of the European Commission, and the European Strategic Forum on Research Infrastructures (ESFRI) upon request. In the five years of its existence MatSEEC has produced various Position Papers, the latest of them on “Metallurgy Europe”. (more information can be found at <http://www.esf.org/hosting-experts/expert-boards-and-committees/materials-science-and-engineering.html>).

## METALLURGY WORKSHOP / WEIMER TRIANGLE

An expert meeting entitled “Precipitation Hardening” was organised by FEMS in Paris on November 18, 2013. The motivation for this meeting originated from the prominent role of precipitation-hardened alloys for the following needs:

1. Reduction of energy consumption
2. Replacement of elements that are critically available for Europe or expensive, and
3. Optimization of processing routes and resulting microstructures for targeted properties

The expert team identified the requirements of industry for research, development and innovation in the field of precipitation hardening and prioritized topics as a potential input to the “Metallurgy Roadmap Europe”. A white paper “Precipitation-hardened alloys and their use in advanced products” was then provided to EuMaT. FEMS is supporting the respective roadmaps of the European Commission, as input for the Horizon 2020 program.

## ALLIANCE FOR MATERIALS (A4M)

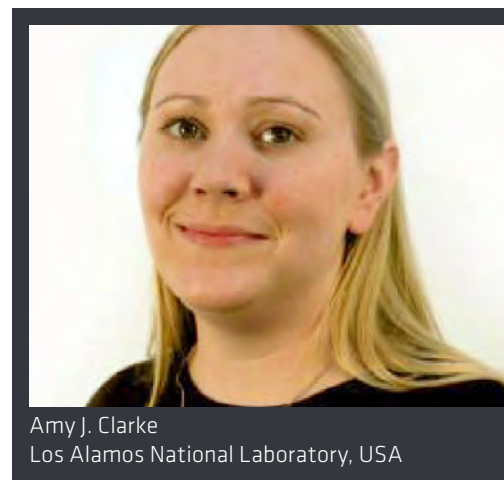
A4M is a network of various independently acting European Industrial Platforms and other materials related organisations including FEMS and E-MRS. The Alliance aims to contribute to create the conditions for an effective integration of stakeholders, views and resources in the field of Materials R&D at EU dimension. Since 2012 FEMS has been a member of A4M since 2012 and Prof. Ehrenfried Zschech, President FEMS (212-2013) is member of the Managing Board of the European Alliance for Materials (A4M) and also member of the Steering Committee of The European Platform on Advanced Materials and Technologies (EUMAT), member of A4M.

## THE ENERGY MATERIALS INDUSTRIAL RESEARCH INITIATIVE - EMIRI

EMIRI was set up in 2012 and has the aim of driving forward research and innovation in advanced materials needed for low-carbon energy applications. FEMS joined EMIRI in 2014 and together with the more than 20 industrial and about 40 research and association members it can participate in setting long-term priorities in advanced materials for the low-carbon energy sector. Through EMIRI FEMS can inform its members about EU and Member State priorities and funding opportunities and benefit from enhanced visibility towards European and national policymakers.

## TMS - FEMS YOUNG LEADER INTERNATIONAL SCHOLAR

The Minerals, Metals & Materials Society (TMS) and FEMS established a joint Young Leader International Scholar Program to promote young member activities and strengthen the collaborations between these international societies. Each society will propose representatives who will present a lecture at a central event of the correspondent society and will tighten the links between USA and Europe in the area of Materials Science and Engineering. **Amy J. Clarke** from the Materials Science and Technology – Metallurgy Group, Los Alamos National Laboratory, New Mexico, and USA was elected joint TMS – FEMS lecturer in 2013.



Amy J. Clarke  
Los Alamos National Laboratory, USA



# FEMS Governance

## HUGH DUNLOP, FEMS EXECUTIVE SECRETARY

FEMS conducted two meetings of the Executive Committee (EC) in 2013 in Paris and in Seville and further meetings of the Management Committee, which consists of the President, the Vice and the Past President, the Treasurer and the Secretary. On the agenda of these meetings were topics including FEMS Communication with the member societies and the materials community via the Web, Newsletter. FEMS relation to EU Activities, FEMS activities in MatSEEC, FEMS European Training Courses, FEMS Conferences (EUROMAT and JUNIOR EUROMAT), the tasks of the EC members, FEMS Awards, etc. Since the EC and strategy meetings which were held in Lausanne in 2012 new guidelines for the tasks of EC members have been established. In addition guidelines for future EUROMAT applications have been prepared and which were employed for the EUROMAT 2017 tender. The Webpage and the newsletter were completely renewed in 2012. In 2014 an extra, special issue of the FEMS Newsletter reported extensively about the activities of FEMS Member Societies. Communication with the societies and expert boards have been intensified with visits of the President at the MatSEEC meeting in March 2014, and at DGM and IOM3 Headquarters and at the bi-annual materials conference of SOCIE-MAT in Barcelona. Key visits like these will continue as will the information exchange between FEMS and member societies.



Image on the right:  
XIII Congreso Nacional Materiales  
Universidad Barcelona 2014, Spain

FEMS EC members: Juan J. de Damborenea, Madrid  
Paloma Fernández Sánchez, Madrid  
Margarethe Hofmann-Amtenbrink, Lausanne  
Pedro Dolabella Portella, Berlin

**FEMS**  
FEDERATION OF EUROPEAN  
MATERIALS SOCIETIES



www.fems.org

### Member Society News - 06/2014

#### News from Portuguese Society



The Portuguese Society of Materials, SPM, is pleased to announce that for 2013-2015 their governing board has a new President of SPM: Professor Paula Vilarinho, from the University of Aveiro, and a new Vice-President: Luis Gil, Senior Researcher of LNEG - National Laboratory for Energy and Geology



President of SPM: Professor Paula Vilarinho



Vice-President of SPM: Luis Gil

The general objectives for the period 2012 - 2015 are in continuation of the work that has been developed:

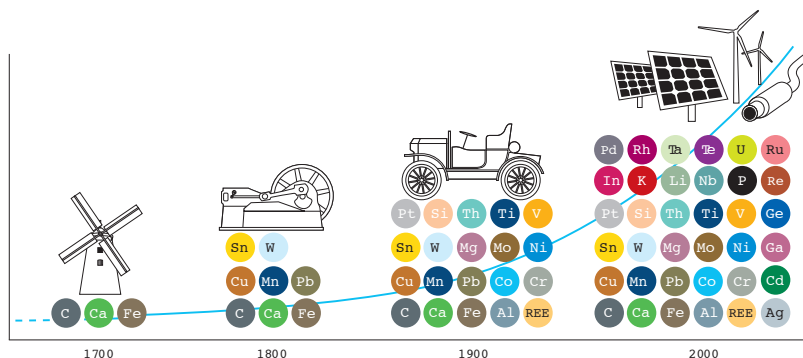
- **Promoting:** To help the development of a dynamic and interactive materials community that promotes excellence in the field of materials by promotion, collaboration and interdisciplinarity.
- **Disseminating:** To assume a role of leadership and indispensability in disseminating vital information on Science and Technology of Materials in Portugal and disclose to the public and policy makers the vital role of the materials to meet the challenges of the future.
- **Dignifying:** To promote the careers of the members. To offer programs, products and services that help SPM members grow professionally and become able to thrive in a global economy.
- **Developing:** To contribute to the development of the national industrial base in the area of materials.

Within the activities program of this new directing board, the promotion of the SPM activities to increase their action and visibility among the various sectors (civil society, researchers and industrial, among others) is a priority. A strong effort will be dedicated to strengthening of relations with the Portuguese and European Materials Industry. Another important aspect that will be addressed is the modernization of the tools to communicate with associates and interested parties. Enhancing the engagement of SPM with the European societies (FEMS and E-MRS), the Brazilian, Spanish, American and African national societies and fostering youth participation in SPM life and activities is also a key activity of this board. This new board is committed to contribute to a modern and active SPM.

Get more information on SPM by <http://www.spmat-riais.pt>, which is available soon. ■

# Foresight for the Future

Many materials are hidden behind components and final products, but they play a major role in the industrial revolution especially in the last 20 years. The number of different elements used for the industrial innovative products, e.g. in energy, has more than doubled in the last 100 years which means that products become more complex. With this, also the requirements of advanced materials processing has drastically increased. Materials research is coupled to product development and market innovation in its early stages. European Research Programs such as HORIZON 2020 defined various material foci related to industrial leadership, supporting “the development of technologies underpinning innovation across a range of sectors”.



Achzet et al., Materials critical to the energy industry, Augsburg, 2011

## FEMS EUROPEAN ACTIVITIES

FEMS started liase a few years ago with European Industrial Platforms and became partner of a European Project MatVal having the aim to contribute to the materials value chain from research towards industrial innovation providing an effective answer to the present need for enhanced coordination between the various stakeholders of the present and future European materials community. In addition to FEMS, E-MRS (European Materials Research Society) is also a partner of MatVal, and both societies and the European Industrial Platforms are engaged to increase the visibility of materials necessity and importance in the European Community and the industrial world. FEMS became a member of the Alliance4Materials in 2012 and in 2014 joined the Energy Materials Industrial Research Initiative (EMIRI).

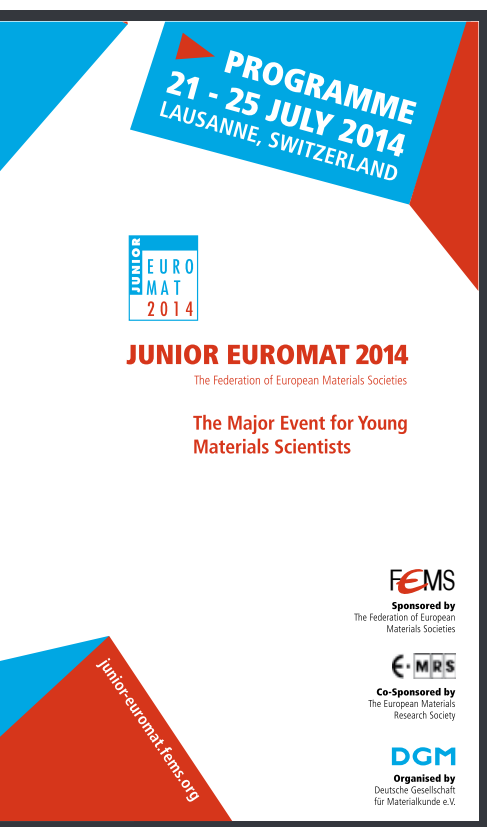
### FEMS Networking in Europe



EUROMAT 2011, Montpellier, France



FEMS Presentation about materials scarcity at Industrial Technologies 2014, Athens, Greece



## JUNIOR EUROMAT

Bridging research and industrial application is in the scope of such networking activities and is also the aim of conferences that FEMS organises together with its member societies. In 2014, the Junior EUROMAT conference, organised by the Deutsche Gesellschaft für Materialkunde (DGM), will take again place in Lausanne. More than 320 participants will visit this outstanding event for junior scientists including Master and PhD students and Post Docs. High level speakers from academia include:

*Michael F. Ashby*, Emeritus Professor in the Department of Engineering at the University of Cambridge, a world-renowned authority on engineering materials, and *Michel Rappaz*, full Professor and head of the Computational Materials Laboratory at Ecole Polytechnique Fédérale de Lausanne (EPFL), both having received the FEMS European Materials Medal, will talk about materials maps, metallurgy and nanosciences.

*Thomas Lippert*, head of the Materials group at the Department of General Energy Research, Paul Scherrer Institute (PSI), Switzerland, and Professor in the Department of Chemistry and Applied Biosciences at ETH Zurich and President of E-MRS, will discuss various materials aspects.

*Dr. Jacques Komornicki*, Innovation Manager at the European Chemical Industry Council (CEFIC) and partner in the European Project MatVal similar to FEMS will focus on the materials value chain.

## EUROMAT 2015

In 2015, the next EUROMAT conference will take place in Warsaw, Poland having with Professor Lindsay Greer, Head of Department of Materials Science & Metallurgy at University of Cambridge and member of the Energy@Cambridge Strategic Advisory Board as Scientific Conference Chair. The Polish Materials Society (President Prof. Piotr Kula) is organiser together with the Warsaw University of Technology (WUT). The WUT Professor Malgorzata Lewandowska is vice chairperson of the conference and Wojciech Swieszkowski, also Professor at the WUT is responsible for the organisation of the event. For the first time, the EMRS Autumn Meeting and FEMS EUROMAT will organise their meetings at the same venue and bridge both materials events with a “European Materials Weekend”.

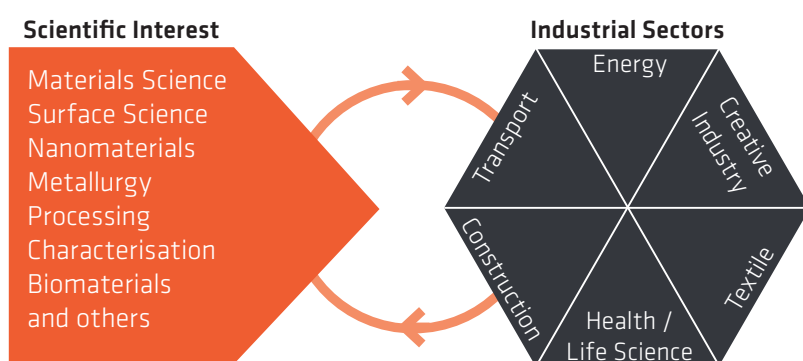
[www.euromat2015.fems.org](http://www.euromat2015.fems.org)



## CONTINUATION IN NETWORKING

FEMS provides many activities and services for its 28 member societies and lays another aspect on intensifying the contact and likes to intensify the visibility of our member societies.

The FEMS Annual Report highlights the activities from the preceding year and brings more transparency concerning the activity of the Federation. FEMS is interested in attracting further societies to give materials science and engineering an independent “European Voice”. The success of the various expert reports, especially that of Metallurgy Europe, supported also by a large portion of the European Industry, demands for a continuation of materials experts to meet and to exchange on topics relevant for the European industry of tomorrow, underlining the need of a sustainable and ecological maintainable growth in Europe. Advanced and complex materials will continue to require more critical and exotic elements. The view on metal resources and their political and economical potential in a global competition, and the option on recycling or re-use of such materials will influence also materials research and engineering. FEMS will keep an eye on the whole value chain and discuss such strategies also at their conferences like the “side event” sessions in the EUROMAT conference series.



For all these activities, the members of FEMS Executive Committee, the scientific boards of EUROMAT Conferences, the members of Expert Boards and the representatives of FEMS Member Societies are working as volunteers to allow intensive networking and new understandings in novel technologies. FEMS like to thank all these people for their engagement by offering many evenings and weekends of their time to the Federation.

Yours

*Margarethe Hofmann and the FEMS Executive Committee*



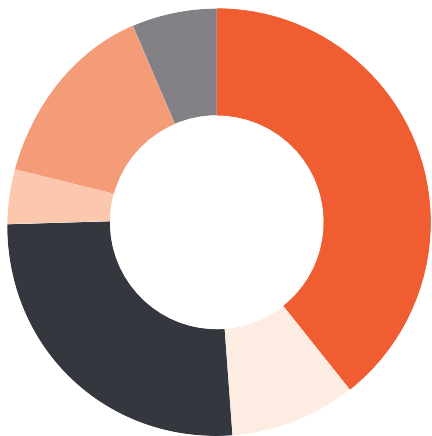
Technology Briefing Functional Coatings  
2014, Dübendorf, Switzerland,  
from left: M. Tului, Centro Sviluppo Materiali  
S.p.A, Italy, and from Switzerland:  
A. Dommann, EMPA  
H. Hofmann, EPFL  
M. Hofmann-Antenbrink, FEMS  
T. Lippert, Paul Scherrer Institute  
and President EMRS  
R. Koopmans, Dow Europe GmnH

# FEMS Finances

## REPORT FROM THE FEMS TREASURER, LUDO FROYEN

### EXPENDITURE 2013

As a not-for profit association of 28 European materials societies in 22 different countries the size of these societies varies enormously, from fewer than 50 to more than 10,000 members and by this also the member fees which are fixed to 3 EUR per member for each of the societies. This income and that from EUROMAT Conferences every two years, which is related to the number of participants gives FEMS the opportunity to pay Poster Prizes at JUNIOR EUROMAT, to pay for an external Secretary and to support the work done voluntarily by the Management and Executive Committee through the reimbursement of travel and accommodation (to a certain amount). The following figures show the allocation of the budget to the various activities without and with the EU Project MatVal. The Vice President of 2013 represented FEMS at the various MatVal meetings and workshops/conferences.



- Administration
- Awards
- Committee
- Communication
- MatVal Vice President
- MatVal EC/MC

The total expenditures of FEMS was 56'609.49 EUR including MatVal

### INCOME 2013

The income of FEMS is related to the payment of member societies' membership fees and the income generated from EUROMAT conferences. For 2014, the remainder of the outstanding FEMS membership fees from 2013 and the revenue received from EUROMAT 2013 mean that no deficit will result.



- FEMS Advanced Training Course
- Membership fee 2011-2013
- Conferences

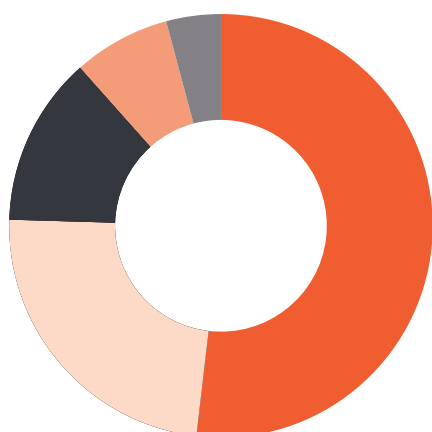
The income of FEMS in 2013 was 36'704.73 EUR



## BUDGET 2015

The budget in 2015 for the income and expenditures is shown below. The income through EUROMAT conferences is subdivided into two parts for two years. The JUNIOR EUROMAT, organised by DGM does not generate any income for FEMS.

For the year 2015 FEMS is expecting 54'400 EUR, the overall expenditures are calculated to be about 54'000 EUR.



- Administration
- Executive Committee
- Communication
- Awards
- New Initiatives

Budgeted Expenditure 2015



- Society Fees
- EUROMAT contribution
- Interest

Budgeted Income 2015

# FEMS Executive Committee 2013

THE FEMS EXECUTIVE COMMITTEE 2013 CONSISTED OF THE FOLLOWING MEMBERS



**President**

Ehrenfried Zschech, Professor Dr.,  
Fraunhofer Institute IKTS, Dresden,  
Germany



**Vice President**

Margarethe Hofmann-Amttenbrink,  
Dr.-Ing, MatSearch Consulting, Pully,  
Switzerland



**Immediate Past President**

Pedro Dolabella Portella, Prof. Dr.-Ing.,  
Federal Institute for Materials Research  
and Testing, BAM, Berlin Germany



**Treasurer**

Ludo Froyen, Prof. Dr. Ir.,  
KU Leuven, Leuven, Belgium



**Executive Secretary**

Hugh Dunlop, Dr. C-TEC Constellium  
Technology Centre, Voreppe, France



**Executive Committee Member**

Brett Suddell, Dr. Swansea  
University,  
South Wales, United Kingdom



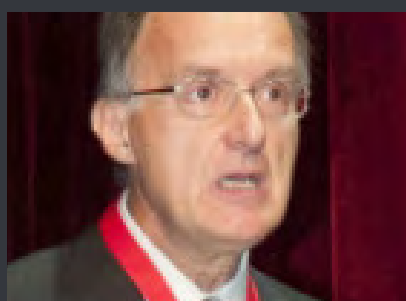
**Executive Committee Member**

Michel Boussuge, Professor Dr., MINES - Paristech Centre des Matériaux CNRS, Evry, France



**Executive Committee Member**

Jana Horniková, Dr. University of Technology, Brno Czech Republic



**Executive Committee Member**

Livio Battezzati, Professor Dr., Università di Torino, Torino Italy



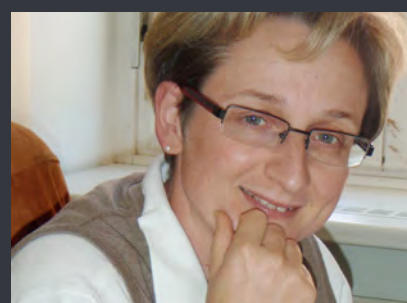
**Executive Committee Member**

João F. Mano Professor Dr., University of Minho AvePark, Caldas das Taipas Guimarães, Portugal



**Executive Committee Member**

Pawel Zieba, Professor Dr., Polish Academy of Sciences, Krakow, Poland



**Executive Committee Member**

Brigitte Kriszt, Dr. Montanuniversität Leoben, Leoben, Austria



**Executive Committee Member**

Juan J. de Damborenea, Prof. Dr., National Centre for Metallurgical Research (CENIM), Madrid, Spain

# FEMS Member Societies



**BRETT SUDELL, VICE PRESIDENT FEMS 2014-2015**

**ON THE FOLLOWING PAGES FEMS MEMBER SOCIETIES INFORM ABOUT THEIR CONTACTS, ACTIVITIES IN 2013 AND THOSE OF 2014. AS PART OF FEMS ON-GOING INITIATIVES TO IMPROVE THE INTERACTION BETWEEN FEMS AND ITS MEMBER SOCIETIES WE HAVE ASKED MEMBER SOCIETIES TO ANSWER A NUMBER OF QUESTIONS TO HELP PROMOTE THEIR ACTIVITIES AND UNDERSTAND TO A GREATER EXTENT THEIR NEEDS MOVING FORWARD - THIS IS ONE OF MANY NEW INITIATIVES TO INCREASE THE INTERACTION BETWEEN FEMS AND MEMBER SOCIETIES. WE ARE ALSO IN THE PROCESS OF COMPILING RESPONSES TO OUR SWOT (STRENGTHS, WEAKNESSES, OPPORTUNITIES AND THREATS) ANALYSIS UNDERTAKEN WITH MEMBER SOCIETIES AND INTERNALLY WITH THE FEMS EC. THIS WILL HELP SET OUR AGENDA TO MOVE FORWARD IN TERMS OF INCREASED INTERACTION AND SUPPORT FOR OUR MEMBER SOCIETIES WHO ARE AT THE HEART OF FEMS ACTIVITIES.**





**THE AUSTRIAN SOCIETY FOR  
METALLURGY AND MATERIALS**

## Recent highlights

Metal Additive Manufacturing  
conference:  
[www.additivemanufacturing2014.org](http://www.additivemanufacturing2014.org)

## Notable award

**Franz-Leitner-Preis:** The board of directors of ASMET and the executive board of Böhler Schweißtechnik Austria GmbH endow this award all two years to young researchers in Austria (up to 35 years) for outstanding contributions in the field of welding technologies – awarded in 2013 to Dipl.-Ing. Andreas Horn,

**Roland-Mitsche-Preis:** This award is endowed to the mentor of Austrian metall science and endowed by the Fachverband der Metallindustrie der Österreichischen Bundeskammer der gewerblichen Wirtschaft, der technischen-wissenschaftliche Verein ASMET und die Deutsche Gesellschaft für Metallkunde. In 2012 the awardee was Prof. Gerhard Schneider.

**INTECO ASMET Preis:** in 2013 the awardee was Dipl.-Ing. Dr. mont. Pawel Krajewski.

## ASMET – THE AUSTRIAN SOCIETY FOR METALLURGY AND MATERIALS, [WWW.ASMET.AT](http://WWW.ASMET.AT)

**Address:** Franz-Josef-Straße 18, 8700 Leoben

**Phone:** +43 3842 402-2290

**President:** DI Franz Rotter

**Contact name:** Dr. Bruno Hribernik

**Position:** Executive Member of the Managing Board

**Email:** [Bruno.hribernik@voestalpine.com](mailto:Bruno.hribernik@voestalpine.com)

**Phone:** +43 3842 402-2290

## Top events organized recently

8th European Continuous Casting Conference 2014, 23-26 June 2014, Graz, [www.eccc2014.org](http://www.eccc2014.org)

3 Länder Korrosionstagung, 08.-09. Mai 2014, Linz  
[www.asmet.at/index.php/de/news/578-praesentationen-der-3-laender-korrosionstagung-2014](http://www.asmet.at/index.php/de/news/578-praesentationen-der-3-laender-korrosionstagung-2014)

3rd Symposium on Carbon Based Coatings, 03.-04. June 2014, Seggau  
[www.eventsbooking.org/events/cbc2014](http://www.eventsbooking.org/events/cbc2014)

## Upcoming other ASMET Events

SSTT 2014 – 3rd International Conference SSTT (Small sample Test Techniques), 23/09/2014 – 25/09/2014, Leibnitz, <http://eventsbooking.org/events/sstt2014/>

## Upcoming ASMET events for FEMS to promote over the next 2 years

Metal Additive Manufacturing Conference 2014: 20/11/2014 – 21/11/2014, Vienna;  
[www.eventsbooking.org/events/metal-additive-manufacturing-conference-2014](http://www.eventsbooking.org/events/metal-additive-manufacturing-conference-2014)

8th European Stainless Steel Conference 2015 – Science and Market and the Duplex Steel Conference & Exhibition 2015: 28/04/2015 – 30/04/2015, Graz;  
[www.eventsbooking.org/events/essc2015](http://www.eventsbooking.org/events/essc2015)

EUROCORR 2015: “Earth, Water, Fire, Air, Corrosion happens everywhere”, 06/09/2015 – 10/09/2015, Graz, [www.eurocorr2015.org](http://www.eurocorr2015.org)

International Conference on Materials, Processing and Product Engineering (MPPE 2015) 02/11/2015 – 05/11/2015, Leoben  
[www.eventsbooking.org/events/mppe2015](http://www.eventsbooking.org/events/mppe2015)

## Czech Republic



### METAL SCIENCE SOCIETY OF THE CZECH REPUBLIC (MSS), [MSS.TUL.CZ](http://MSS.TUL.CZ)

**Address:** Ke Karlovu 5, Praha 2, CZ – 121 16

**Phone:** +420-221911362

**President:** Vladimír Cíhal

**Period of office:** three years

**Contact name:** prof. Vladimír Šíma

**Position:** secretary

**Email:** [sima@met.mff.cuni.cz](mailto:sima@met.mff.cuni.cz)

**Phone:** +420-221911362

#### Recent highlights

10th International Conference on Local Mechanical Properties – LMP 2013

Kutná Hora 6.–8.11. 2013, Czech Republic

#### Top events organized recently

International Symposium on Physics of Materials ISPMA 12, Praha 4.-8.9. 2011, Czech Republic

10th International Conference on Local Mechanical Properties – LMP 2013, Kutná Hora 6.–8.11. 2013, Czech Republic

International Symposium on Physics of Materials ISPMA 13, Praha 31.8.-4.9. 2014, Czech Republic



### CZECH SOCIETY FOR NEW MATERIALS & TECHNOLOGIES (CSNMT) - [WWW.CSNMT.CZ](http://WWW.CSNMT.CZ)

**Address:** Novotného lávka 5, 116 68 Praha 1, Czech Republic

**Phone:** +420 221 082 275

**President:** Associate Prof. Dr. Karel Šperlink

**Period of office:** 4 years

**Contact name:** Associate Prof. Dr. Josef Kasl

**Position:** secretary

**Email:** [kasl@vzuplzen.cz](mailto:kasl@vzuplzen.cz)

#### Identify key events you would like FEMS to promote over the next two years

6th International Conference NANO-CON 2014, 5 to 7 November 2014, Brno

24rd Annual International Conference on Metallurgy and Materials, 25 to 31 May 2015, Brno

8th International Conference on Materials Structure & Micromechanics of Fracture (MSMF8), 27 to 29 June 2016

#### Top events organized recently

23rd Annual International Conference on Metallurgy and Materials, 21 to 23 May 2014, Brno

5th International Conference NANOCON 2013, 16 to 18 October 2013, Brno

7th International Conference on Materials Structure & Micromechanics of Fracture (MSMF7), 1 to 3 July 2013



## SOCIÉTÉ FRANÇAISE DE MÉTALLURGIE ET DE MATÉRIAUX (SF2M), [WWW.SF2M.ASSO.FR](http://WWW.SF2M.ASSO.FR)

**Address:** 28 rue saint Dominique 75007 Paris

**Phone:** +33 1 46330800

**President:** Jean-Marc Chaix

**Period of office:** 2013-2014

**Contact name:** Jeanne Chone

**Position:** General Secretary

**Email:** [jeanne.chone@orange.fr](mailto:jeanne.chone@orange.fr)

**Phone:** +33 1 46330800

### Top events organized recently

Annual SF2M meeting in Lille  
Oct 29-31, 2013: 120 attendees,  
27 posters, 70 communications with  
three plenary, four symposia: Mate-  
rials for transportation, Joining, wel-  
ding and sticking, Materials Recy-  
cling and biomaterials

Eurosuperalloys 2014 May  
12-16 in Giens, French Riviera:  
240 attendees from 20 countries,  
52 communications, 82 posters.  
35% industrial attendees

Fatigue Design Material defects II,  
Paris, June 11-13, 2014: 135 attendees  
from 23 countries, 56 communica-  
tions, 25 posters

### Key events for FEMS to promote over the next 2 years

Spring Fatigue meetings end of May

Fatigue Design each two years (2015)

Annual SF2M autumn meetings in  
October

Participation to our thematic com-  
mittees

### Recent highlights

New President 20 June 2013 for two  
years: Jean-Marc Chaix

General Assembly held in Paris  
March 21, 2014

Elections March 2014 and new  
Council, June 2014

### Notable awards

The awards were given during the  
SF2M annual meeting in Lille, Octo-  
ber 30, 2013

Grande Médaille de la SF2M awar-  
ded to François MUDRY (Président  
IRT M2P), Membre d'Honneur  
2013: awarded to Pedro Dolabella  
PORTELLA (BAM Allemagne),  
Médaille Chaudron awarded to Jean  
Lehmann (ArcelorMittal), Médaille  
Bastien Guillet awarded to Eric  
ANDRIEU (ENSIACET Toulouse),  
Médaille Sainte Claire Deville awar-  
ded to Paul VAN HOUTTE (KUL  
Belgique), Médaille Charles Eichner  
awarded to Frédéric SANCHETTE  
(UTT Antenne de Nogent), Prix  
Aperam René Castro awarded to  
Chadwick W. SINCLAIR (Univ. Of  
British Columbia Canada), Médaille  
Jean Rist awarded to the following: ,  
Alexandre DEVAUX (Aubert et  
Duval), David GLIJER (ArcelorMittal  
Maizières), Gaëlle POUGET (Constel-  
lium), Henry PROUDHON (ENSM  
Mines ParisTech) and further on Prix  
Bodycote SF2M awarded to Damien  
TEXIER (CIRIMAT Toulouse), Prix  
Dalla Torre awarded to Thomas  
GARNIER (ENS Lyon), Prix Arcelor-  
Mittal - Pierre Vayssière awarded  
to Marielle ESCOT (Institut Jean  
Lamour)



## DEUTSCHE GESELLSCHAFT FÜR MATERIALKUNDE E. V. - WWW.DGM.DE

**Address:** Senckenberganlage 10, 60325 Frankfurt

**Phone:** +49-69-75306-750

**President:** Prof. Hans Jürgen Christ

**Period of office:** 2013-2014

**Contact name:** Dr. Frank O.R. Fischer

**Position:** Managing Director

**Email:** frank.fischer@dgm.de

**Phone:** +49-69-75306-751

### Recent highlights

The biennial international conference "Materials Science Engineering (MSE 2012)" organised by the Deutsche Gesellschaft für Materialkunde took place in Darmstadt from 25 - 27 September 2012. [www.dgm.de/past/2012/mse-congress/](http://www.dgm.de/past/2012/mse-congress/)

### Notable awards

In the frame of our annual event «DGM-Tag» we present various awards such as the DGM Honorary Membership, the «Heyn-Gedenkmuenze» and the «DGM-Preis». A list of the awardees is to be found here: [www.dgm.de/dgm/html/verein\\_ehrungen.htm](http://www.dgm.de/dgm/html/verein_ehrungen.htm)

### Top events organized recently

DGM - Tag 2013 in Bochum, 22.-23. May.2013, [www.dgm.de/past/2013/dgmtag/](http://www.dgm.de/past/2013/dgmtag/) with the DGM-Nachwuchsforum [www.dgm.de/past/2013/nachwuchsnachwuchsforum.htm](http://www.dgm.de/past/2013/nachwuchsnachwuchsforum.htm)

Materialographie, 18.-20. September 2013 in Friedrichshafen, [www.dgm.de/past/2013/metallographie/](http://www.dgm.de/past/2013/metallographie/)

**Contact name:** Beate Toelle-Kortmann

**Position:** management assistant

**Email:** toe@dgm.de

### Key events for FEMS to promote over the next 2 years

DGM - Tag 2014 in Darmstadt, 22.-25. September 2014 with the DGM-Nachwuchsforum [www.dgm.de/dgm/dgm-tag-nachwuchsforum/php/dgmtag.php?lg=en](http://www.dgm.de/dgm/dgm-tag-nachwuchsforum/php/dgmtag.php?lg=en) and the

«Materials Science Engineering (MSE 2014)» Congress from 23.-25.9.2014 also in Darmstadt, [www.dgm.de/dgm/mse-congress](http://www.dgm.de/dgm/mse-congress)

WERKSTOFFWOCHE 14. - 17.9.2015 IN DRESDEN, [www.werkstoffwoche.de/home/](http://www.werkstoffwoche.de/home/)



## DEUTSCHER VERBAND FÜR MATERIALFORSCHUNG UND -PRÜFUNG E.V, WWW.DVM-BERLIN.DE

**Address:** Gutshaus, Schloßstr. 48, 12165 Berlin

**Phone:** +49 30 8113066

**President:** Lothar Krüger

**Period of office:** 2013-2014

**Contact name:** Kathrin-Luise Leers

**Position:** Managing Director

**Email:** office@dvm-berlin.de

**Phone:** +49 30 8113066



## THE HELLENIC METALLURGICAL SOCIETY (HMS), WWW.MET.GR

**Address:** Department of Mechanical Engineering, Materials Laboratory,  
Pedion Areos, 38334, Volos, Greece

**Phone:** +30 24210 74034

**President:** Dr. Anna Zervaki

**Period of office:** 01/12/2013 - 30/11/2016

**Contact name:** Dr. Apostolos Chamos

**Position:** Secretary of HMS BoD

**Email:** hamosa@mech.upatras.gr

**Phone:** +30 2610 969498

### Recent highlights

The Hellenic Metallurgical Society organized the 5th Pan-Hellenic Conference on Metallic Materials on November 21st-22nd 2013. The Conference took place at the Roof-tile and Brickworks Museum N. & S. Tsalapatas in Volos city and attracted more than 200 researchers and engineers all over Greece. During the Conference, two keynote lectures and more than 80 research works were presented.

### Key events for FEMS to promote over the next 2 years

The Hellenic Metallurgical Society is co-organizer of the 4th International Conference of Engineering Against Failure - ICEAF IV which will be held on 24-26 June 2015 in Skiathos island, Greece. The aim of ICEAF IV is to attract interdisciplinary work dedicated to understanding the underlying physics of engineering failure, experimental and theoretical failure analysis, model the structural response with regard to local and global failure and structural design for preventing of engineering failure. Contributions are expected to cover a number of different technological areas including Aeronautics, Construction, Automotive, Marine, Rail, Bioengineering, Recycling, etc.

### Top events organized recently

Co-organizer of the 2nd International Conference of Engineering Against Failure (ICEAF II), June 2011, Mykonos, Greece

Co-organizer of the 3rd International Conference of Engineering Against Failure (ICEAF III), June 2013, Kos island, Greece

Organizer of the 5th Pan-Hellenic Conference of Metallic Materials, Volos, November 2013.





## HELLENIC SOCIETY FOR THE SCIENCE & TECHNOLOGY OF CONDENSED MATTER (HSSTCM), [WWW.HSSTCM.EU](http://WWW.HSSTCM.EU)

**Address:** NCSR «Demokritos», Patriarchou Grigoriou Street, Agia Paraskevi, 15310

**Phone:** +30 210 6503322

**President:** Dr George Vekinis

**Period of office:** 2014-2016

**Contact name:** Dr Konstantinos P. Giannakopoulos

**Position:** Secretary

**Email:** [hsstcm@hsstcm.eu](mailto:hsstcm@hsstcm.eu), [kyann@imel.demokritos.gr](mailto:kyann@imel.demokritos.gr)

**Phone:** +30 210 6503247

### Key events for FEMS to promote over the next 2 years

30th Panhellenic Conference on Solid State Physics and Materials Science, Iraklion, Crete, Greece, Sep 2014  
<http://fsk30.materials.uoc.gr>

31st Panhellenic Conference on Solid State Physics and Materials Science, Greece, 2015

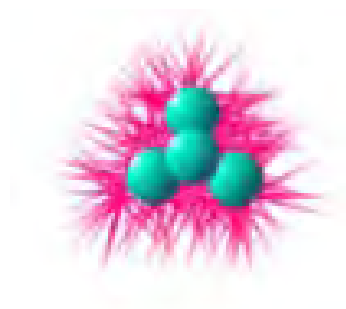
### Top events organized recently

HSSTCM is always involved in the organisation of the annual Panhellenic Conference on Solid State Physics and Materials Science, now (2014) in its 30th year. It also assisted with networking the 11th International Symposium on SHS (2011)

### Recent highlights

HSSTCM actively supported and helped organise the 29th Panhellenic Conference on Solid State Physics and Materials Science, held in Athens, in Sept. 2013, where we sponsored the annual HSSTCM Invited Talk. At the end of the Conference, HSSTCM organized an open discussion on the challenges faced by the Materials Science community in Greece.

Dr Giannakopoulos of HSSTCM submitted and won the pan-European 3-year project "Stimulate" ([www.materialsfuture.eu](http://www.materialsfuture.eu)) aimed at making the general public understand the importance of Advanced Materials in building the sustainable societies of the future. HSSTCM was instrumental in offering support and networking. In connection with this project, it is planned to engage as many local FEMS member societies as possible, and the products of the project (games, videos etc) will be made available in all 23 official EU languages. In this regard, we strongly encourage any input and support from all FEMS members by visiting [www.materialsfuture.eu/en/contribute](http://www.materialsfuture.eu/en/contribute).



## HUNGARIAN SOCIETY OF MATERIALS SCIENCE, WWW.KFKI.HU/ANYAGOKVILAGA

**Address:** 1121 Budapest, Konkoly-Thege M. ut 29-33

**Phone:** +36 1 392 2249

**President:** Prof. George Kaptay

**Period of office:** 2013-2018

**Contact name:** Dr. Katalin Balázs

**Position:** Secretary

**Email:** balazsi.katalin@ttk.mta.hu

**Phone:** +36 1 392 2249

### Notable awards

Award of Hungarian Society of Materials Science was awarded to Prof. Zsámbók Dénes (2009),

Prof. Vero Balázs (2011),  
Prof Csanády Andrásné (2013)

### Key events for FEMS to promote over the next 2 years

X. Hungarian Conference on Materials Science (2015)

### Top events organized recently

IIIV. Hungarian Conference on Materials Science (2009),

IIIV. Hungarian Conference on Materials Science (2011)

IX. Hungarian Conference on Materials Science (2013)

# The Netherlands



## **BOND VOOR MATERIALENKENNIS (BVM), WWW.MATERIALENKENNIS.NL**

**Address:** Kruisstraat 74, 5612 CJ Eindhoven, The Netherlands  
(mailing: P.O. Box 359, 5600 AJ Eindhoven, The Netherlands)

**Phone:** +31 40 2969913

**President:** Eddy Brinkman

**Contact name:** Mrs. Karin van Bakel

**Email:** [info@materialenkennis.nl](mailto:info@materialenkennis.nl)

### **Description**

The “Bond voor Materialenkennis” (Society for Materials Science) is a networking group with experts in the field of materials science and processing. Our members are mainly researchers and technicians working at universities, research organisations and companies, who take a pleasure in disseminating or absorbing knowledge on the processing and application of materials, within and outside the materials field. This occurs mainly by organising meetings with presentations and personal interaction, and more and more in the form of courses. The Bond has approximately 838 members, and is active in the following fields: metals, polymers, ceramics, biobased materials, paint technology, corrosion, joining, materials processing using lasers, rheology, tribology, heat treatment of metals, durability and reliability.

### **Recent highlights**

MEETING MATERIALS 2014, High-performance products with lightweight materials, 27 May 2014, Helmond, The Netherlands: one-day meeting to discuss the latest developments in high-performance products with lightweight materials. Both industrial experts as well as leading academics will present their findings and products [www.meetingmaterials.com](http://www.meetingmaterials.com)



**Key events for FEMS to promote over the next 2 years**

Composites School 2014  
(Brindisi/Lecce, 24-26 September)

Composites Europe 2014  
(Dusseldorf, 7-9 October)

Computec Show 2015  
(Carrara, 4-6 Febr.)

Jec Europe 2015 (Paris, 10-12 March)

Assocompositi National Congress  
(May 2015)

**ASSOCIAZIONE ITALIANA COMPOSITI & AFFINI  
(ASSOCOMPOSITI), WWW.ASSOCOMPOSITI.IT**

**Address:** Piazza Leonardo da Vinci 32 - 20133 Milano

**Phone:** +39 3480105920

**President:** Roberto Frassine

**Period of office:** since 2005

**Contact name:** Simona Tiburtini

**Position:** Secretary

**Email:** ufficiostampa@assocompositi.it

**Phone:** +39 3480105920

**Recent highlights**

New services for members including the first Italian label for recyclable composites certification and a new partner for composites training courses; Guidelines for the application of FRMC in construction field

**Top events organized recently**

Italian Pavilions at JEC Europe Show and Composites Europe, national congress, composites school



**ASSOCIAZIONE ITALIANA D'INGEGNERIA  
DEI MATERIALI (AIMAT), WWW.AIMAT.NET**

**Address:** Via Mancinelli 7, 20131 Milano (Italy)

**Phone:** +39 02 2399 3110

**President:** Prof. Francesco Paolo La Mantia, Dipartimento di Ingegneria Civile, Ambientale Aerospaziale, dei Materiali, Università di Palermo

**Contact name:** Prof.ssa MariaPia Pedferri, Dipartimento di Chimica, Materiali e Ingegneria Chimica «Giulio Natta», Politecnico di Milano via Mancinelli 7, 20131 Milano,

**Position:** Secretary

**Email:** mariapia.pedferri@polimi.it

**Phone:** +39 02 2399 3110



## AIM - ASSOCIAZIONE ITALIANA METALLURGIA, WWW.METALLURGIA-ITALIANA.NET

**Address:** P.le R. Morandi, 2 - 20121 MILANO

**Phone:** +39 02 76021132 - 76397770 - 76397763

**President:** Prof. Carlo Mapelli - Politecnico di Milano

**Period of office:** 2013-2018

**Contact name:** Dott.ssa Federica Bassani

**Position:** Secretary-general

**Email:** aim@aimnet.it

### Description

Associazione Italiana di Metallurgia is a non-profit, non governmental cultural organization founded in 1946. AIM's prime functions are the gathering and dissemination of scientific knowledge in the field of metals and structural materials and the fostering of information exchange both at national and international level.

### Study Groups (Centri di Studio)

AIM Study Groups currently cover the following areas: Coatings, Corrosion, Die-casting, Environment and safety, Forging, Foundry, Heat treatments and metallography, Heat treatments development, History of metallurgy, Light metals, Materials for energy, Metal physics and materials science, Metals and application technologies, Non-ferrous metals, Plastic deformation, Powder metallurgy, Product control and characterisation, Refractories and advanced ceramics, Steelmaking, Welding.

### Activities

Publication of the monthly journal «La Metallurgia Italiana» - a literature source reporting on recent investigations in material science and technology

Publication of books covering a wide range of subjects, from physical metallurgy to production processes of metals and their applications, technical-scientific books and a series of reference manuals produced for AIM courses and workshops

Publication of proceedings of major events organised by AIM

Awards for outstanding achievements in materials science and technology

Organization of international conferences and, national meetings, courses and a series of particular topical events.

### Top events

Eurocorr 2014 - European Corrosion Congress, Pisa 8-12 September 2014

European Conference Heat Treatment & Surface Engineering & 22nd IFHTSE Congress- Venice, 20-22 May 2015

STEELSIM 2015 - 6th Int. Conference Modelling and Simulation of Metallurgical Processes in Steelmaking - Bardolino, 23-25 September 2015

HTDC 2015 - 6th International High Tech Die Casting conference, Venice Autumn 2015

EEC 2016 - 11th European Electric Steelmaking Conference, Venice, 25-27 May 2016

TMP 2016 - 5th International Conference on Thermo mechanical Processing of Steels





**POLISH MATERIALS SOCIETY (PTM),  
WWW.PTM.IMIM.PL**

**Address:** Krasinskiego 8, 40-019 Katowice

**Phone:** +48 42 631 3031

**President:** Prof. Piotr Kula

**Period of office:** 2011-2014

**Contact name:** Prof. Piotr Niedzielski

**Position:** secretary

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**Recent highlights**

XX Physical Metallurgy and Materials Science Conference Advanced Materials and Technologies, AMT 2013-12 JUNE 2013 Kudowa Zdrój, Poland

**Key events for FEMS to promote  
over the next 2 years**

EUROMAT 2015, 21.-25. 9. 2015 in  
Warsaw Poland.

**Top events organized recently**

XX Physical Metallurgy and Materials Science Conference Advanced Materials and Technologies, AMT 2013-12 JUNE 2013 Kudowa Zdrój, Poland

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Seminar of PTM,  
Lublin 18-20 May 2014



**SOCIEDADE PORTUGUESA DE MATERIALS (SPM),  
WWW.SPMATERIAIS.PT**

**Address:** Campus do Lumiar, Edifício D, Sala 1021, Estrada do Paço do Lumiar - Lisboa, Apartado 4538-EC Carnide 1511-601 Lisboa, Portugal

**Phone:** + 351 965756172

**President:** Professor Paula Vilarinho, University of Aveiro, Department of Materials and Ceramics Engineering (email: paula.vilarinho@ua.pt)

**Vice President:** Vice-President is Luis Gil, Senior Researcher of LNEG – National Laboratory for Energy and Geology (email: luis.gil@lneg.pt)

**Period of office:** April 2013 to April 2015

**Contact name:** Manuela Oliveira

**Position:** Secretary-genral

**Email:** manuela.oliveira2@gmail.com, spm@spmateriais.pt

**Recent highlights**

New website; 1st number of SPM News Letter; SPM Journal (Ciência e Tecnologia dos Materiais) is now published by ELSEVIER

**Key events for FEMS to promote  
over the next 2 years**

World Materials Day 2014, Aveiro,  
Novembro 2014

Materiais 2015, Porto, Portugal,  
June 2015

World Materials Day 2015 (place to  
be announced)

**Top events organized recently**

Materiais 2013 (Coimbra, Portugal),

Organization of EUROCRR 2013  
(Estoril, Portugal),

EUROMAT 2013 (Sevilla, Spain)

## MATERIALS RESEARCH SOCIETY OF SERBIA (MRS-SERBIA), [WWW.MRS-SERBIA.ORG.RS](http://WWW.MRS-SERBIA.ORG.RS)

**Address:** Knez Mihailova 35/IV, 11000 Belgrade

**Phone:** +381-11-2636-994

**President:** Prof. Dr. Dragan Uskokovic

**Period of office:** From the beginning (1997-)

**Contact name:** Aleksandra Stojicic

**Position:** YUCOMAT & YRC Conferences' Secretary

**Email:** [yucomat@mrs-serbia.org.rs](mailto:yucomat@mrs-serbia.org.rs)

**Phone:** +381-11-2636-994

### Key events for FEMS to promote over the next 2 years

FEMS already endorses YUCOMAT Conferences. Therefore, we would like for FEMS to endorse and promote YUCOMAT 2014 (September 1-5, already endorses, [www.mrs-serbia.org.rs/conference\\_program2014.html](http://www.mrs-serbia.org.rs/conference_program2014.html)), 13YRC 2014 (December 10-12), as well as YUCOMAT 2015, 14YRC 2015, YUCOMAT 2016 and 15YRC 2016 (dates for the conferences in 2015 and 2016 will be agreed upon a year before they are to be held). All conferences are promoted through MRS-Serbia website.

### Top events organized recently

MRS-Serbia traditionally organizes 2 international conferences every year: YUCOMAT (since 1995) in early September in Herceg Novi, Montenegro, and YRC (since 2002) in December in Belgrade, Serbia. In 2011 we also organized VII International Conference on Mechanochemistry and Mechanical Alloying INCOME 2011, together with International Mechanochemistry Association. [www.mrs-serbia.org.rs/income2011/income2011.html](http://www.mrs-serbia.org.rs/income2011/income2011.html).

### Notable awards

To encourage prospective young scientists, an assigned evaluation Committee selected the authors of the best PhD thesis defended between two YUCOMAT conferences (1 award), as well as the best oral (1 award) and poster presentations (3 awards granted at YUCOMAT 2013). These awards are granted at every YUCOMAT conference since 1997. Since there were many excellent presentations which may be put side by side with current research in international centres, the Awards Committee decided to give 5 equal awards and this decision was supported by Prof. Dr. Dragan Uskokovic on behalf of the Materials Research Society of Serbia.

### Recent highlights

During 2013, MRS-Serbia organized 2 annual international conferences: 15th YUCOMAT 2013 (September 2-6, Herceg Novi, Montenegro, ([www.mrs-serbia.org.rs/conference\\_program2013.html](http://www.mrs-serbia.org.rs/conference_program2013.html)) and 12th Young Researchers' Conference – Materials Science and Engineering (December 11-13, Belgrade, Serbia, [www.mrs-serbia.org.rs/12conference.html](http://www.mrs-serbia.org.rs/12conference.html)). At YUCOMAT 2013 around 150 participants from 35 countries around the world gathered to hear 28 lectures given by invited speakers in five plenary sessions, 42 papers presented in four oral and 70 papers presented in three posters sessions, within five one-day symposia dedicated to advanced methods in materials synthesis and processing, advanced materials for high-technology applications, nanostructured materials, composites and biomaterials. Conference also included the exhibition of innovative scientific equipment. The official language of the meeting was English.



## SLOVENSKO DRUŠTVO ZA MATERIALE / SLOVENIAN SOCIETY OF MATERIALS (SDM)

**Address:** Lepi pot 11, SI-1000 Ljubljana

**Phone:** +386 1 4701 980

**President:** Prof.dr. Franc Vodopivec

**Period of office:** from 1991 on

**Contact name:** Dr. Matjaž Torkar

**Position:** Secretary of SDM

**Email:** matjaz.torkar@imt.si

### Recent highlights

Slovenian Society of Materials (SDM) is joining researchers from the fields: metallic materials, polymers and inorganic materials (ceramics).

### Key events for FEMS to promote over the next 2 years

Important for Slovenia is that FEMS is among moral sponsors of our traditional international Conference on Materials and Technology, with strong session for young researchers that compete for the best presentation. The Conference is held every autumn in Portorož, Slovenia.

### Top events organized recently

SDM organizes every year Promotion of science and research work to young people from secondary school level. Mostly young researcher presents their research work. Representative of University of Ljubljana presents the study of materials and metallurgy.



## SOCIEDAD ESPAÑOLA DE MATERIALES (SOCIEMAT), WWW.SOCIEMAT.ES

**Address:** Urb. Los Arroyos, c/ 25 nº 78 – 28292 El Escorial (Madrid)

**Phone:** +34 618 170 493

**President:** Prof. Paloma Fernández-Sánchez

**Period of office:** Since 2006 (Re-elected in 2012 until 2016)

**Contact name:** Anna Muesmann

**Position:** Administration Staff; Treasurer

**Email:** sociemat1996@gmail.com

**Phone:** +34 618 170 493

### Key events for FEMS to promote over the next 2 years

Workshop «Processing ceramics from wastes: a new raw material source for a global change», Baeza, Spain. September 29th- October 1st 2014, deadline applications: 4th September 2014, [www.unia.es/content/view/798/537](http://www.unia.es/content/view/798/537)

Workshop XTreme Coat 2014 «Surface Engineering for functional applications under extreme conditions» 20/10/2014 - 21/10/2014 - INTA, Madrid, Spain, [www.funcoatconsolider.com](http://www.funcoatconsolider.com)

14° SAM-CONAMET / IBEROMAT 2014 - XIII SIMPOSIO MATERIA, 21/10/2014 - 24/10/2014 - Argentina, [www.cimec.org.ar/materiales2014/index.php/materiales2014/materiale](http://www.cimec.org.ar/materiales2014/index.php/materiales2014/materiale)

Bioceramics 26 (26th Symposium and Annual Meeting of the International Society for Ceramics in Medicine), 6/11/2014 - 8/11/2014 - Barcelona, Spain, [www.bioceramics26.com](http://www.bioceramics26.com)

### Recent highlights

EUROMAT (Seville, Spain, September 2013)

XIII Spanish Materials Conference (Barcelona, Spain, June 2014)

### Top events organized recently

IBEROMAT 2012 - held jointly with the XII Spanish Conference on Materials in Alicante in June 2012. IBEROMAT is the Iberoamerican Conference on Materials

EUROMAT 2013 - [euromat2013.fems.eu/welcome.html](http://euromat2013.fems.eu/welcome.html)

CNM 2014 - XIII Spanish Conference on Materials. It was held in Barcelona in June 2014. [www.cnmat2014.com](http://www.cnmat2014.com)

### Notable awards

SOCIEMAT Award Best Scientific Career: Dr. Agustín Rodríguez Elípe, 2014

SOCIEMAT FEI Best Scientific Photo: Carola Alonso de Celada Casero "Mar de Colores" 2014

SOCIEMAT UNIVERSIA Best Poster: M<sup>a</sup> José Clemente, ICMA, Universidad de Zaragoza - CSIC "Chemical Characterization On Laser Marked White Polymer Materials"

SOCIEMAT Caja Ingenieros Best Project Materials Engineering: Rosa Barranco García, CENIM "Nanopartículas mesoporosas de sílice cargadas con inhibidores de corrosión medioambientalmente aceptables: síntesis y evaluación de su capacidad, 2013

Best Poster JR EUROMAT 2014: Belén Sotillo and Konstantina Konstantopoulou



# Switzerland



## SWISS ASSOCIATION FOR MATERIALS SCIENCE AND TECHNOLOGY (SVMT), [WWW.SVMT.CH](http://WWW.SVMT.CH)

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**Phone:** +41 32 645 40 67

**President:** Marcel Menet

**Contact name:** Kirsten de Micheli

**Position:** Managing Director

**Email:** [demicheli@svmt.ch](mailto:demicheli@svmt.ch)

**Phone:** +41 32 645 40 67

### Recent highlights

SVMT founded a new working group  
«Metallkunde»

### Notable awards

SVMT-Prize for the best Masterwork to a student of the ETH Zurich.

### Top events organized recently

SVMT Material-Day Switzerland

SVMT Students Day at the CERN Geneva

SVMT Congress Biomaterials: Cleanliness of Medical Devices

## I. FRANTSEVSCH UKRAINE MATERIALS RESEARCH SOCIETY (U-MRS), [WWW.UMRS.KIEV.UA](http://WWW.UMRS.KIEV.UA)

**Address:** 03142, Kyiv-142, 3 Krzhynanovsky Str.

**Phone:** +380 44-424-20-73

**President:** Professor Valery Skorokhod

**Period of office:** All day

**Contact name:** Leonid Chernyshev

**Position:** Executive Director

**Email:** [umrs2004@ukr.net](mailto:umrs2004@ukr.net)

**Phone:** +380 44-424-20-73

### Notable awards

Samsonov's Memory Medal

### Recent highlights

Materials and Technologies

### Top events organized recently

International Conference "HighMat-Tech"

International Conference "Materials and Technologies in Extreme Performances",

International Conference "Refractory Materials Science"

# United Kingdom



The Institute of Materials,  
Minerals and Mining

## INSTITUTE OF MATERIALS, MINERALS & MINING (IOM3), [WWW.IOM3.ORG](http://WWW.IOM3.ORG)

**Address:** 1 Carlton House Terrace, London SW1Y 5DB

**Phone:** +44 20 7451 7365

**President:** Professor Jon Binner

**Period of office:** January 2013 to December 2014 - 2 years

**Contact name:** Dr B A Rickinson

**Position:** Chief Executive

**Email:** [bernie.rickinson@iom3.org](mailto:bernie.rickinson@iom3.org)

**Phone:** +44 207451 7365

### Recent highlights

Development of materials and design exchange. Involvement in Matval and Innomatnet. European Commission programmes. Active development to deter metal theft.

Further development of the growing Women in Materials Group.

### Notable awards

45 awards covering entire spectrum of IOM3 community.

### Top events organized recently

Young Persons' World Lecture Competition

PVC 2014, Rubbercon 2014

### IOM3 TV

The Institute of Materials, Minerals and Mining is committed to increasing the use of IOM3 TV in 2014. The site offers various talks and videos on a number of subjects, including the Presidential Address of current President, Professor Jon Binner, entitled 'Material Challenges'. View the videos at [www.iom3.tv](http://www.iom3.tv)

### IOM3 Awards and Prizes

On 15 July, award winners and guests attended a black tie event to celebrate the 2014 IOM3 Premier Awards and Prizes. Among guests was Stannas Bellaby, winner of the inaugural Technicians' Medal and Dr Robert Quarshie, who was presented with the Outstanding Contribution Award. He said, 'It's nice to be recognised, particularly when it's an award for serving the community. Materials contributes to 75% of innovation and I'm pleased the contribution to the Knowledge Transfer Network has been recognised.'

The awards recognise global achievement and this year, four women from the University of Navarra in Spain were awarded the Charles Hatchett Award for the best paper on the science and technology of niobium and its alloys. Awarded to A Iza-Mendia, M A Altuna, B Pereda, I Gutiérrez for 'Precipitation of Nb in ferrite after austenite conditioning: Parts I&II'.

View the video:

<http://bit.ly/iom3awards14>

View the full list of winners: [www.iom3.org/award-winners-2014](http://www.iom3.org/award-winners-2014)  
Nominations for the 2015 IOM3 Awards open 1 September 2014.



**Belgium**

**Benelux Métallurgie**

**[www.beneluxmetallurgie.be](http://www.beneluxmetallurgie.be)**

## **BENELUX MÉTALLURGIE**



### **Génie Metallurgique**

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**Estonia**

**Estonian Materials Science Society (EMSS)**

## **ESTONIAN MATERIALS SCIENCE SOCIETY (EMSS)**



### **Estonian Materials Science Society (EMSS)**

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**Latvia**

**Latvian Materials Research Society (LMRS)**

## **LATVIAN MATERIALS RESEARCH SOCIETY (LMRS)**



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## LITHUANIAN MATERIALS RESEARCH SOCIETY (LTMRS)



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## NORSK METALLURGISK SELSKAP (NMS)



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**Phone:** +47 95 23 43 00  
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## SOCIETY FOR NEW MATERIALS AND TECHNOLOGIES IN SLOVAKIA (SNMTS)



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