



Union Internationale Pour La Science, La Technique et Les Applications du Vide  
International Union for Vacuum Science, Technique and Applications  
International Union für Vakuum Forschung, Technik und Anwendung

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## From the Secretary General



Ron Reid, [iuvsta.secretary.general@ronreid.me.uk](mailto:iuvsta.secretary.general@ronreid.me.uk)

## The next General Meeting of IUVSTA in Paris on 11th September 2013

We look forward to the next General Meeting of IUVSTA which will be held in Paris on 11th September 2013. To that end, there are a number of administrative matters which have to happen over the next year or so. I have already issued a call to our Member Societies to make nominations for President Elect for the Triennium 2013-2016. The Executive Council will select its candidate from among those nominated at ECM 115, probably in April 2013 at a venue which will be announced soon.

I will also be calling for nominations to the Executive Council (Councilors and Alternates) and for Members of Divisions for the next Triennium in about two months time. At ECM 113 it was decided that all Members of Divisions will in future participate as fully as possible in the scientific and technical work of their Division and we would no longer elect Divisional Committees. To this end, it would be good if anyone interested in being a Divisional Member would ensure that their Vacuum Society is aware of this so that they can be considered for nomination.

There will also be two other very important calls. The Congress Planning Committee will call for bids for the IVC 21 series of conferences to be held in 2019. The Awards and Scholarships Committee will be seeking nominations for the two prestigious IUVSTA Prizes to be presented at IVC 19 in Paris. Watch out for these.

Can I ask all Vacuum Societies to please ensure that I have up-to-date contact information for their President so that we can ensure that all information gets to the correct person?



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## Executive Council Meeting 113

Ivan Petrov, [petrov@illinois.edu](mailto:petrov@illinois.edu)

The ECM 113 took place at the Holiday Inn Orlando UCF, Orlando, Florida, USA, 2 - 4 March 2012.

The minutes are posted on the IUVSTA web-site:

<http://iuvsta-us.org/iuvsta2/assets/docs/records/Tr1013/ECM113/ECM-113-01-01-minutes.pdf>

A few highlights are presented here. The meeting was chaired by President Elect Dr Mariano Anderle in the absence the President Prof Jean-Jacques Pireaux who was unable to attend. The local hosts from the Florida Chapter of the AVS lead by Professor Jiangeng Xue had ensured excellent arrangements for the ECM; as a token of appreciation the President Elect presented Prof Xue with a copy of a book describing the Trento region of Italy. This ECM 113 was followed by the Annual Joint Symposium of FLAVS <http://www.flavs.org/> and the Florida Society for Microscopy (FLAVS-FSM 2012) on March 5-6.

The following IUVSTA workshops and schools were approved at ECM113:

- IUVSTA Workshop no 67 entitled “High Temperature amorphous and nanostructured ceramic coatings: challenges and opportunities” to be held at the STFC Daresbury, UK, 23-27 September 2012, sponsored by the Surface Engineering and Thin Film Division. The website is [http://www.cockcroft.ac.uk/events/IUVSTA\\_67/index.html](http://www.cockcroft.ac.uk/events/IUVSTA_67/index.html)
- IUVSTA Workshop no 68 entitled “Multifunctional Surface Engineering for Advanced Energy Applications” to be held at the City University of Hong sponsored by the Surface Engineering and Thin Film Divisions. The workshop will be held December 9-13, 2012 and the current website is <http://www.cityu.edu.hk/cosdaf/MSEAEA2012/Index.html>
- IUVSTA Workshop no 69 entitled “Oxidation of Organic Materials by Excited Radicals Created in Non-Equilibrium Gaseous Plasma ”, sponsored by the Plasma Science and Technique Division to be held in Cerklje na Gorenjskem, Slovenia, December 9–13, 2012.
- IUVSTA School no 11 entitled “SLIMS- International School on Lasers in Materials Science” sponsored by the Surface Engineering Division. This school was held successfully in Isola di San Servolo, Venice, Italy, 8-15 July, 2012. <http://www.slims.polimi.it/> (see report below)

## Proposed by-laws change

The Scientific Technical Directorate (STD) and the ECM discussed and voted in favor of suggested changes to the STD such that the Division College became the Divisional Committee; In the age of email exchange, discussions and exchange of ideas are easier and it is of benefit to keep all division representatives involved in the division activities and decision making. The necessary revision to the By Laws will be discussed at the next Statutes committee meeting.



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## Executive Council Meeting 114

Marian Veselý and Viera Dubravcová,  
Institute of Electronics and Photonics, Ilkovicova 3, 812 19 Bratislava, Slovak Republic  
Andrej Vincze, [vincze@ilc.sk](mailto:vincze@ilc.sk)  
International Laser Centre, Ilkovicova 3, 841 04 Bratislava 4, Slovak Republic

The ECM 114 will be hosted by the Slovak Vacuum Society and held in at the Hotel Tatra in Bratislava, Slovakia 28-30 September 2012 alongside the IUVSTA Highlights Seminar on October 1, 2012.

The ECM 114 will start September 28, 2012 on afternoon with Officer's business meeting, followed by the next day with the IUVSTA Committee meetings and in Sunday September 30, 2012 with the ECM 114. The IUVSTA Highlights Seminar presented by all divisions will be held at the same venue, hotel Tatra on October 1, 2012.

The registration form for the ECM 114 is located:  
<http://www.svs.stuba.sk/ECM114/registration.html>

The web site is: <http://www.svs.stuba.sk/ECM114/index.html>

Additional information from the organizer: [marian.vesely@stuba.sk](mailto:marian.vesely@stuba.sk) or [vincze@ilc.sk](mailto:vincze@ilc.sk)



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## IUVSTA Directory Update

Ivan Petrov, [petrov@illinois.edu](mailto:petrov@illinois.edu)

David Ruzic, IUVSTA Scientific Director of the Scientific Technical Directorate launched an initiative to update the IUVSTA on-line directory. The goal is to get to know each other better, facilitate exchange of information, and make our communications easier.

A web-based data entry form has been created and everyone active in IUVSTA is kindly asked to fill it in.

<http://iuvsta-us.org/iuvsta2/index.php?id=2043>

The data will be entered in the IUVSTA directory and will be searchable. This directory is accessible in the "members only" area which is password protected.



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## 19<sup>th</sup> International Vacuum Congress – IVC19

General Chair: M.G. Barthés-Labrousse, [marie-genevieve.barthes@u-psud.fr](mailto:marie-genevieve.barthes@u-psud.fr)

Program Committee Chair: François Renier, [francois.reniers@ivc19.org](mailto:francois.reniers@ivc19.org)



For updates check: <http://www.ivc19.com/>

### Confirmed plenary lecturers include:

#### **Dan Shechtman**

Technion, Israel ; 2011 Nobel Laureate in Chemistry  
Quasi-periodic materials - Crystal redefined

#### **Shoucheng Zhang**

Stanford, USA ; 2010 Europhysics Prizewinner

#### **Bertrand Piccard / André Borschberg**

Solar Impulse Aircraft Project

A large technical exhibition will be running alongside the conference. Further information at  
<http://www.ivc19.com/exhibition-sponsorship/exhibition.html>

An IVC 19 - International Scientific Committees Programme meeting was held in Paris on Monday, July 9, 2012 at the headquarters of the French Vacuum Society. A list of ten keynote speakers was compiled as well as the session topics for the call for papers. A list of invites speakers will be assembled by September. Additional information can be obtained from the Chairs of the International Scientific Committees:  
<http://www.ivc19.com/organisation/committees.html>



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## JVC14/EVC12/AMDVG11/CroSloVM19 - "Dubrovnik Vacuum Conference"

Nikola Radić, [radic@irb.hr](mailto:radic@irb.hr)

A quadruple 14th Joint Vacuum Conference + 12th European Vacuum Congress + 11th Annual Meeting of the German Vacuum Society + 19th Croatian-Slovenian Vacuum Meeting has been held in Dubrovnik, 4-8 June 2012. The conference was organized by the Croatian Vacuum Society under the general sponsorship of IUVSTA. Conference coorganizers were the JVC-conference organizers, the German Vacuum Society, and the European chapter of the IUVSTA VST Division. Four established meetings with scope and topics covering the nine IUVSTA scientific sections were joined in one conference in order to increase the attendance and to multiply the creative/fruitful interaction among participants.

Conference proceeded through 5 plenary, 1 lauretae, 2 keynote and 16 invited talks/ lectures, while the body of the conference were 63 oral and 122 poster presentations. The conference lasted five days with two (or three) parallel sessions occurring daily. The oral sessions were mostly devoted to Vacuum Science and Technology (19), Thin Films and Surface Engineering (16), Surface Science and Applied SS (13).

There were 251 registered participants from 31 countries - 41 students among them. The participants came from Croatia (37), JVC-countries (96), Germany (22), but also from the non-European countries - from the USA (7), Japan (7), China (4) etc.

The traditional exhibition was held alongside the conference with 16 international producers and suppliers presenting of the vacuum equipment, components and consumables, diagnostic tools etc.

As the side events, the meetings of the IVC19 organizers, JVC-pool societies (next JVC15 will be in Austria!) and the ICTF16 organizers were held during the conference. Prof. John Colligon and Elsevier's Jan Wijnen held a well-attended Author Workshop with the aim to advice the prospective authors in preparation of manuscripts according to the Vacuum standards.

The conference also featured a traditional excursion (Dalmatian hinterland + Ston "long walls" + oyster growing fields by boat) which ended with the conference dinner.





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## 11th IUVSTA School on Lasers in Materials Science – SLIMS

Peter Schaaf, [peter.schaaf@tu-ilmenau.de](mailto:peter.schaaf@tu-ilmenau.de)

The 11th IUVSTA International School on Lasers in Materials Science (SLIMS2012) was held on Isola di San Servolo, Venice, Italy, from 8th to 15th of July, 2012. The School was organized in the framework of the IUVSTA activities within the Surface Engineering Division (SED) and in cooperation with the Venice International University (VIU), NSF, Politecnico di Milano, Laserlab Europe and the AIV - Associazione Italiana di Scienza e Tecnologia. The school continued the tradition of the first two editions of the School that took place in the same location in 2008 and 2010. This year, SLIMS was recognized and supported as the 11th IUVSTA School. The co-chairman of the school from IUVSTA (SED) were Prof. Paolo Ossi, Milano, Italy (Italian representative to IUVSTA and Prof. Peter Schaaf, Ilmenau, Germany (Vice chair of IUVSTA-SED).

The main purpose of the School was to provide PhD students and young research scientists working in the field of laser-materials interactions with robust fundamental roots that are often usually lacking in their training, so that they could profitably interact with colleagues working in areas neighboring, but not coincident, with their own research field. This research area usually involves plenty of questions related to vacuum science and technology. Although the School has been geared towards the level of a PhD student, advanced undergraduate and Master students, as well as postdoctoral researchers have joined in this edition. A total number of 35 students, from 13 countries have attended the School.

The School encompassed various activities including a set of lectures by 17 international experts in the field of laser-materials interaction and vacuum science and technology (the Program is displayed at <http://www.slims.polimi.it/program.htm>). The participation of students was articulated through poster and brief oral contributions. Structured discussions among lecturers and students took place in two specialized dedicated sessions. Several “classrooms” enforced the discussion and questions of the students. Prizes were awarded in a closing ceremony for the best students contributions.

The school also included a presentation of IUVSTA, explaining its structure, scientific and educational activities.





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## Future Events



### VASSCAA-6

ISLAMABAD-PAKISTAN

6<sup>TH</sup> VACUUM AND SURFACE SCIENCES  
CONFERENCE OF ASIA AND AUSTRALIA  
OCTOBER 9 -13, 2012



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## VASSCAA-6

The 6<sup>th</sup> Vacuum and Surface Sciences Conference of Asia and Australia (**VASSCAA-6**) is going to be held from October 9-13, 2012 in the beautiful city of Islamabad (city of peace), Pakistan.

This conference will provide a stimulating opportunity to the professionals within the academia, research, and industrial communities from Pakistan and abroad to share current practices and future challenges in the field of vacuum and surface sciences. This conference is a major forum of the region for the exchange of knowledge and experience. It will provide numerous scientific, technical and social opportunities for meeting leading experts in the applied areas of vacuum and surface science technologies. An exhibition of vacuum technology equipment and systems will be a significant part of this event, where prominent international as well as local industrialists and vendors shall display their high-tech products. A large number of delegates from foreign and local are expected to participate in this mega event. The venue of the conference will be the National Institute of Vacuum Science and Technology (**NINVA**ST), NCP Complex, Quaid-i-Azam University, Islamabad. Your participation in **VASSCAA-6** will provide you a rare chance to get the benefits of the latest knowledge through personal interactions and fruitful discussions with the foreign experts. Welcome to Islamabad.

**The registration is open now, get registered yourself**  
**Full paper submission September 05, 2012**  
**Preliminary program September 10, 2012**  
**Last date for registration September 15, 2012**  
**Room reservation September 15, 2012**

Email: [info@vasscaa6.pvs.com.pk](mailto:info@vasscaa6.pvs.com.pk)

Web address: [www.vasscaa6.pvs.com.pk](http://www.vasscaa6.pvs.com.pk)

Organized by **Pakistan Vacuum Society (PVS)**



**Mr. M. K. Aijazi**  
**President, PVS**  
**General Chair, VASSCAA-6**



**Dr. Javaid Ahsan Bhatti**  
**PVS Councilor to IUVSTA**  
**Secretary, VASSCAA-6**