



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

Dear IUVSTA Colleagues,

This Issue includes reports on the Union's activity in the summer/fall period of 2014, as well as information on Member Societies conferences. The contents is as follows:

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The names and email addresses of the contributors are given on the corresponding pages. Full reports on IUVSTA workshops and schools are posted on the IUVSTA web-site: [www.iuvsta.org](http://www.iuvsta.org). Organizers of IUVSTA forums, IUVSTA committees and divisions chairs are encouraged to submit reports on events of interest to the whole Union.

Regards

Ivan Petrov, [petrov@illinois.edu](mailto:petrov@illinois.edu)  
IUVSTA Publications Committee Chair



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## Executive Council Meeting 119, Hotel Adria, Dubrovnik, Croatia

Christoph Eisenmenger-Sittner, [christoph.eisenmenger@ifp.tuwien.ac.at](mailto:christoph.eisenmenger@ifp.tuwien.ac.at)

ECM 119 was held on Sunday, October 12 at Hotel Adria, in Dubrovnik, Croatia. In his report, the President of the Union, Mariano Anderle welcomed the participants and wished a successful ECM. The Secretary General, Christoph Eisenmenger-Sittner expressed his thanks to the Italian Vacuum Society in general and to the President of the Union in special for organizing an excellent ECM 118. Thanks were also expressed to the Croatian Vacuum Society for providing the excellent facilities in which ECM 119 was held as well as for the flawless organization.

The Secretary General then urged the members of the Union to frequently use the web-site of IUVSTA, now that it has become relatively easy to manage. The "Members" section of the web-site will be used to distribute agendas, working papers and general information rather than harassing the members with frequent e-mails. Relevant up-to date information between ECM's can be found in the "Meantime" section.

He also expressed his thanks to all members of the Union to which he had frequent contact and emphasized the fast and efficient way in which required information was given. The Secretary General emphasized that he, in return, would provide information and help as fast and efficient as possible.

Moving on in the agenda, from the six workshop proposals received, three were recommended for funding by the STD. All of these proposals were approved for funding by ECM 119. Workshop number 75 was proposed by PSTD and EMPD and is entitled "Sheath Phenomena in Plasma Processing of Advanced Materials". It will be held from 19th – 23rd January, 2015 in Cerklje na Gorenjskem, Slovenia. Workshop number 76, proposed by ASSD, TFD, and SSD, will be held from July 6th – 10th in Avila, Spain will deal with the physical properties of ultrathin oxide films. Workshop number 77, finally, was proposed by VSTD. It will be held from Aug 15-20 or or Aug 28-Sept 3, 2016 in Fuefuki/Japan as a satellite meeting to IVC 20 in Korea. It will deal with surface processes, gas dynamic and vacuum technology of cryogenic vacuum systems. Concerning workshops and schools submitted it can be observed that several proposals had a very high scientific and technological level so that the process of selecting the best proposals has become very competitive. In the next ECMs several other exciting proposals are anticipated.

Finally, the Venue and dates of ECM 121 was decided. ECM 121, which also will include the IUVSTA highlight seminar will be held in conjunction with the 2015 AVS International Symposium 62. This AVS62 symposium will take place in San Jose, California, from Monday, October 19 to Friday, October 23, 2015. The Highlight Seminar is scheduled for Friday, October 23 and ECM 121 will take place from Friday, October 23 to Sunday, October 25, also in San Jose at the same meeting site as the AVS62.

Before ECM 119 was adjourned, the history and the main fields of the Croatian Vacuum Society, were presented by the Councillor of Croatia and President of the Croatian Vacuum Society, Slobodan Milošević.

After the successful completion of the Sunday morning meetings the participants were invited to have lunch and to continue discussions. All delegates agreed that this was an excellent and productive.

In the afternoon following ECM 119 many delegates were transferred to the conference site of the 16th International Conference on Thin Films (ICTF 16) which was also to take place in the City of Dubrovnik and was an extremely successful meeting with more than 300 participants from more than 30 nations.

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The IUVSTA leadership at the ECM119



The ECM119 participants at the backdrop of Elafiti islands, the coast of Gruž and bay of Lapad For more pictures visit <http://ivanp.smugmug.com/Other/ECM119ICTF16/>



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## 16th International Conference on Thin Films, 13-16 October, 2014 Dubrovnik, Croatia

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

The 16th International Conference on Thin Films is over. Mid-October, Dubrovnik, bright sunny days, a lot of good people - the ICTF16 has occurred under these circumstances.

The 16th International Conference on Thin Films was held in Dubrovnik, 13-16 October 2014. It was jointly organized by three national vacuum societies - Croatian, Hungarian, and Slovenian - under the general sponsorship of the International Union for Vacuum Science, Technique and Applications (IUVSTA). The collaboration among old friends was exemplary - we understood each other without much words. A massive contribution came from the International Programme Committee responsible for the scientific program of the conference. Everything was in place hours before the conference start.



The conference lasted four days with three parallel sessions occurring daily. Each day began with the plenary lecture by one world-renowned speaker - Sir Andre Geim, Joe Greene, Lars Hultman, and Masakazu Aono, respectively.

Seventeen invited talks gave insight into the state-of-the-art of fourteen topics of the conference. The body of the conference were 116 oral and 136 poster presentations. The oral sessions were mostly devoted to Oxide Thin Films (25), Thin films for optoelectronics, nanoelectronics and spintronics (19), and Innovative Methods of Thin Film Analytics and Structural Characterization (15). All presentations were followed by questions and discussions cut short only by next talks (but continued during the coffee breaks, with ice cream also served). Poster sessions discussions were even livelier, stimulated by a free beer. A selected papers presented at the conference will be published in a Special Issue of Thin Solid Films - Proceedings of

the ICTF16.

There were about 320 registered participants from 41 countries - 83 students among them. The participants came from Republic of Korea (61), Croatia (30), France (23), Austria (18), Japan (18), Germany (16), etc. - overall 2/3 of them from Europe. Women were about 25% of active participants.

A short course Thin Film Nucleation, Growth, and Microstructural Evolution lectured by Prof. Joseph E. Greene was attended by 20 listeners who filled the room to the maximum of its capacity.



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## 16th International Conference on Thin Films - continued

A traditional exhibition was held alongside the conference with 10 international producers and suppliers presenting thin films equipment, components and consumables, diagnostic tools etc. The organizers hoped for more.

IUVSTA TFD meeting was also held during the conference with discussions related to the next ICTF17 in Mumbai, India.

At the closing ceremony the awards were announced - four IUVSTA-Elsevier Student Awards as a support for attending the ICTF16, and five awards for the best oral or poster presentations by the students.

The conference program also included Dubrovnik sightseeing guided tour which ended with the conference dinner, singing and dancing.

A group photo of 172 participants, flanked by Mirjana and Ante Tolj - alpha and omega of the organization - was taken in front of the hotel before leaving for the sightseeing tour. A much more photos and other information are available at [www.ictf16.com](http://www.ictf16.com)



For more pictures visit <http://ivanp.smugmug.com/Other/ECM119ICTF16/>

According to all participants, it was a well-organized and scientifically sound ICTF conference.



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## 13th European Vacuum Conference, 8-12 September, Aveiro, Portugal

Orlando Teodoro, [odt@fct.unl.pt](mailto:odt@fct.unl.pt)

The 13th European Vacuum Conference (EVC13) was held in Aveiro, Portugal from 8-12 September. It was a joint organization of the Portuguese and Spanish vacuum societies.

ECV13 provided a useful and well-supported forum for scientists to exchange the latest developments in vacuum technology and vacuum-related science. However, this conference gathered experts not only in fields like vacuum generation, vacuum measurement and large vacuum systems but also in topics as surface and applied surface science, coatings and nanotechnology. Special emphasis was given to hard coatings with the dedicated sessions of the 7th European Topical Conference on Hard Coatings and to oxide surfaces with the Special Symposium on Ultra-thin oxide films and oxide coatings applications.

The 27 invited speakers were carefully selected among the best in their fields. Plenary sessions were good examples of the high scientific level of this conference:

“HIPIMS for well-adherent dense coatings” by Arutiun P. Ehasarian from the Sheffield Hallam University, UK

“Oxide materials at the two-dimensional limit” by Falko P. Netzer from Karl-Franzens University of Graz, Austria

“Present and future status on Vacuum Measurement” by Karl Jousten from PTB - Physical-Technical National Institute, Germany

“SubSurface-AFM: looking below a surface” by Marcel J. Rost from the Kamerlingh Onnes Laboratory, Leiden University, The Netherlands

“How can we build invisible electronics?” by Marius Grundmann from the Institute for Experimental Physics II, Leipzig University, Germany

The conference had 274 registered participants from 33 countries (80% from Europe). Four students were awarded with the IUVSTA-Elsevier Award and two other students with E-MRS awards. Ten companies from vacuum related equipment had booths in the exhibition.





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## 12th IUVSTA School on Laser Engineering of Surfaces and Coatings – LESC, 13-19 July 2014, Isola di San Servolo, Venice

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

The School was organized in the framework of the IUVSTA activities within the Surface Engineering Division (SED), with support from the Thin Film Division (TFD), and in cooperation with the Venice International University (VIU), Politecnico di Milano, and the AIV - Associazione Italiana di Scienza e Tecnologia. The co-chairmen 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 school also included a presentation on IUVSTA, delivered by Prof. P. Schaaf, presenting its structure and its scientific and educational activities.

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 the school. In total, 33 students, mainly from EU, Russia (2), Far East (2), the USA (1), Iran (3; conducting their PhD in Vienna) have attended the School. The main purpose of the School has been to provide graduate students, PhD students and young research scientists working in the field of laser engineering of surfaces and coatings with robust fundamental roots that are often 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.



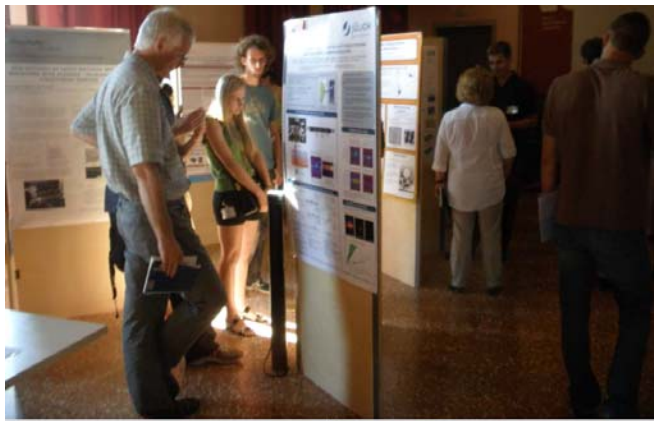


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## 12th IUVSTA School - continued

The School included a set of lectures imparted by 18 international experts in the field of laser-materials interaction and vacuum science and technology (the program is posted at <http://www.slims.polimi.it/abstracts.html>). The participation of students was accomplished through posters and brief oral contributions. Structured discussions among lecturers and students took place in 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 was concluded by a round-table discussion among all students and lecturers about the scientific experience, exchange and professional possibilities in the area of laser engineering of surfaces and coatings.

Questionnaires were filled by the students. There was a very positive response about the school, its contents and quality. Some minor criticisms were the short breaks between the lectures, which have been caused mainly by the intensive discussions developing after the lectures between the students and the lecturers. The students’ participation was extremely active.



LESC poster session



LESC poster winners





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## 73<sup>rd</sup> IUVSTA Workshop „Nanostructures on two-dimensional solids” in Eisenerz, Austria

Christian Teichert [teichert@unileoben.ac.at](mailto:teichert@unileoben.ac.at)

From September 22 - 26 2014, the 73rd IUVSTA workshop was held in Eisenerz, Austria, in the vicinity of the “Styrian ore mountain”. More than 40 specialists from 20 countries were discussing during four days in the middle of the Alps the formation, characterization, and potential application of nanostructure arrays on two-dimensional materials ranging from graphene, hexagonal boron nitride, and transition metal dichalcogenides, to silicene, germanene, topological insulators, and quasi-crystalline thin films. 20 invited speakers from Europe, China, Israel, Japan, and the US gave an overview on the current experimental and theoretical status of the field. Besides the invited presentations, four contributed talks and 11 posters have been given. The workshop was organized by the “Nanometer Structures Division with support by the Surface Science and the Applied Surface Science Divisions. The organizing committee with Hongjun Gao, Institute of Physics, Chinese Academy of Sciences, Beijing, PR China, Markus Kratzer, University of Leoben, Austria, and Thomas Michely, University of Cologne, Germany, and was chaired by Christian Teichert, University of Leoben, Austria. The workshop was opened by the mayoress of Eisenerz and the Rector of the Montanuniversität Leoben (Austrian School of Mines) that was co-organizing the meeting. Two evening sessions were devoted to poster presentations which started with an oral announcement by each presenter within a 5 min short talk. The jury lead by Patricia Thiel, Iowa State University, US, selected the two poster prizes sponsored by the Austrian Vacuum Society. In a round table discussion, the participants were evaluating the success of the meeting and the future of the field. Besides intense scientific discussions, the participants enjoyed the local food served in the youth and family guesthouse “Eisenerzer Ramsau” in an altitude of more than 1000 m. During an excursion to the nearby monastery in Admont the world famous monastery library has been visited by the participants. The social program has been completed by a visit of the Museum in the mining town Eisenerz (English “iron ore”), a hike around a mountain lake, and Alpine folk music.



Participants during the excursion to the world famous library of the Monastery Admont.



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## 13th IUVSTA School on Vacuum Gas Dynamics: Theory, Experiments and Applications, Thessaloniki, Greece, 17-21 May, 2015

Felix Sharipov, [sharipov@fisica.ufpr.br](mailto:sharipov@fisica.ufpr.br)

**OBJECTIVES:** Education and training in Vacuum Gas Dynamics in order to fill the gap between complicated specialized literature and practical needs; guide in the field of rarefied gas dynamics and show relevant methods for practical applications.

**TARGET GROUP:** Researchers in academia and research centers; scientists and engineers in industry who need and use rarefied gas dynamics in their work but they are not experts in the field; Ph.D. students and young researchers in rarefied gas dynamics with applications in vacuum technology and MEMS.

**LECTURERS:** Dr. Karl Jousten (Germany); Dr. Roberto Kersevan (Switzerland); Dr. Oleg Malyshev (UK); Dr. Stergios Naris (Greece); Prof. Felix Sharipov (Brazil); Prof. Dimitris Valougeorgis (Greece).

**TOPICS:** Main concepts and terminology of rarefied gas dynamics; Gas surface interaction; State of the art in modern vacuum gas dynamics; Numerical and analytical modelling of gas processes in vacuum chambers; Numerical solutions of kinetic equations; Direct Simulation Monte Carlo (DSMC) methods; Test Particle Monte Carlo (TPMC) in complex vacuum system; Experimental methods and standards in vacuum and UHV; Design of large vacuum systems; Modelling of pumps, gauges; Industrial processes related to vacuum; Vacuum metrology.

**FORMAT:** The School day will include several sessions. In the three and a half days a total of 10 lectures and 6 practical sessions will be delivered.

**LECTURE NOTES:** The lecture notes and other tutorial material will be available for downloading in a restricted access area at the website of the School.

**ORGANISERS:** Prof. Felix Sharipov, Physics Department, Federal University of Parana, Curitiba, Brazil, Email: [sharipov@fisica.ufpr.br](mailto:sharipov@fisica.ufpr.br) Dr. Oleg Malyshev, Vacuum Science Group, Accelerator Science and Technology Centre (ASTeC), STFC Daresbury Laboratory, UK, Email: [oleg.malyshev@stfc.ac.uk](mailto:oleg.malyshev@stfc.ac.uk); Prof. Dimitris Valougeorgis, Mechanical Engineering Department, University of Thessaly, Volos, Greece, Email: [diva@mie.uth.gr](mailto:diva@mie.uth.gr).

For more information, please visit

<http://iuvsta-school2015.mie.uth.gr>



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## The 15th Joint Vacuum Conference, June 15-20, 2014, Vienna, Austria

Christoph Eisenmenger-Sittner, [christoph.eisenmenger@ifp.tuwien.ac.at](mailto:christoph.eisenmenger@ifp.tuwien.ac.at)

The 15th Joint Vacuum Conference (JVC 15) was held in Vienna, Austria from June 15-20, 2014. The conference, which is designed to attract participants especially from the central European region, had 125 participants from 25 Nations. It could therefore be viewed as a truly international event, despite its local character. The conference was organized by the Austrian Vacuum Society and was endorsed by International Union for Vacuum Science, Technology and Applications, IUVSTA. The venue of the conference, Hotel Kaiserwasser, was a perfect location for both, the scientific presentations as well as for a small exhibition of up-to-date vacuum equipment. The conference topics were related to the nine divisions of IUVSTA, thus showing the shift from purely vacuum oriented contents to topics like Nanoscience or Bio Interfaces. The Conference was endorsed by IUVSTA and many participants can be considered as closely related to the Union. All scientific presentations were of excellent quality and the exchange of scientific ideas was facilitated by the concentration of all participants in one conference venue.

The financial support of all exhibiting companies has to be gratefully acknowledged since many social activities would not have been possible without their contribution.

The social programme culminated in an excellent conference dinner in the beautiful surroundings of the Vienna City Hall. This truly memorable event led to both, exchange of scientific ideas as well as to the establishment of new and the refreshment of existing contacts. Information on the programme as well as some photographic documentation of the conference can be found at <http://www.iap.tuwien.ac.at/jvc15/>

The next Joint Vacuum Conference will take place in 2017 in Slovenia, and it can be anticipated that also this event will be a major contribution to the formation of close scientific bonds in Central Europe.





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## First Ibero-American Congress on Surface, Materials and Vacuum Applications and 35th Brazilian Congress on Vacuum Applications

Pedro Nascente, SBV's representative to IUVSTA, [nascente@ufscar.br](mailto:nascente@ufscar.br)

The First Ibero-American Congress on Surface, Materials and Vacuum Applications (ICSMVA) was held conjointly with the 35th Brazilian Congress on Vacuum Applications in Industry and Science (35th CBRAVIC), in Natal, Brazil, in October 21st-24th. The event was chaired by Clodomiro Alves Junior and had over 200 participants, among them the IUVSTA's president, Mariano Anderle, the president of the French Vacuum Society (Société Française du Vide - SFV), Anouk Galtayries, the American Vacuum Society - AVS's representative, Amy Walker, the president of the Brazilian Vacuum Society (Sociedade Brasileira de Vácuo - SBV), Rogerio Mota, representatives from Mexico (Sociedad Mexicana de Ciencia y Tecnología de Superficies y Materiales - SMCTSM), Argentina (Asociación Física Argentina – AFA), and Portugal (Sociedade Portuguesa de Vácuo – SOPORVAC), as well as speakers from Belgium and Sweden. The organizers hope that this is the first one of a series of ICSMVAs and there is an expectation that the next one will take place in Mexico.





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## PacSurf 2014, a conference announced by AVS

Everyone is welcome to register and attend.

AVS invites you to attend the Pacific Rim Symposium on Surfaces, Coatings and Interfaces (PacSurf 2014) that will be held on the Big Island of Hawaii from December 7-11, 2014. This conference is being organized by AVS (United States) with a Steering Committee composed of representatives from Australia, Canada, Chile, China, Japan, Korea, Mexico, New Zealand, Singapore, and Taiwan.

The main topics for PacSurf will be focused on the latest advances in Biomaterial Interfaces, Energy Harvesting & Storage, Nanomaterials, and Thin Films. We will have morning and evening technical sessions with the afternoons free for other activities and discussions.

The Plenary Address on "Bio-Molecular and Cellular Assemblies at Interfaces" will be given by Prof. Joachim Spatz, the Director of the Max Planck Institute for Intelligent Systems.

For more information and to register please visit

<http://www2.avs.org/conferences/PACSURF>





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## CIP 2015, a conference announced by the French Vacuum Society

**SCIENTIFIC COMMITTEE** (Renewal currently underway)

Luis L. ALVES	Instituto Superior Tecnico, Lisbon (P)
Richard van de SANDEN	Univ. Eindhoven (NL)
Gheorghe DINESCU	NILPRP, Bucharest (RO)
Maria Dolores CALZADA	Univ. Cordoba (ESP)
Pietro FAVIA	Univ. Bari (I)
Renate FÖRCH	Max Planck Institute, Mainz (D)
Evangelos GOGOLIDES	IMEL, Athens (G)
Dirk HEGEMANN	EMPA St.Gallen (S)
Chuang DONG	Univ. Dalian (PRC)
Achim von KEUDELL	Univ. Bochum (D)
Joelle MARGOT	Univ. Montréal, Québec (CND)
Miran MOZETIC	Jozef Stefan Institute, Ljubljana (SLO)
Lawrence J. OVERZET	Univ. of Texas at Dallas (USA)

**STEERING COMMITTEE**

<b>Thierry BELMONTE</b> (Chairman)	IJL, Univ. de Lorraine, Nancy
Angélique BOUSQUET	LMI, Univ. Blaise Pascal, Aubière
Corinne CHAMPEAUX	SPCTS, Univ. Limoges
Franck CLEMENT	IPREM, Univ. Pau
Richard CLERGÉREAU	LAPLACE, Univ. Paul Sabatier, Toulouse
Dominique DEBARNOT	IMMM, Univ. du Maine, Le Mans
Rémi DUSSART	GREMI, Univ. Orléans
Yves HAMEL	Plasma Solar Technology, Gruissan
Gweltaz HIREL	SFV, Paris
Charafeddine JAMA	ENSC Lille
Ana LACOSTE	LPSC, Univ. Joseph Fourier, Grenoble
Pascal MARMEY	CTTM, Le Mans
Céline MARTIN	PIIM, Univ. de Provence, Marseille
Tiberiu MINEA	LPGP, Univ. Paris-Sud, Orsay
Rony SNYDERS	ChIPS, Univ. Mons (B)
Laurent THOMAS	PROMES, Univ. Perpignan

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**CIP 2015**  
[www.vide.org/cip2015](http://www.vide.org/cip2015)

**20th International Colloquium on Plasma Processes**

**1-5 June 2015**  
**Saint-Etienne, France**

In connection with SVTM 2015, International Exhibition on Vacuum and Surface Engineering

**SFV**  
Société Française du Vide

**SFV**  
Société Française du Vide

Organised by French Vacuum Society (SFV)

**1<sup>ST</sup> ANNOUNCEMENT**

For more information visit

<http://www.vide.org/cip2015/>



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## ITFPC 15, a conference announced by the French Vacuum Society

### VENUE

Nancy is an old town, known all over the world and has a particularly rich architectural heritage of the XVIII<sup>e</sup> Century. It is considered as a magnificent example of classical French architecture. The Place Stanislas is one of the most beautiful royal squares in Europe, with its famous gilded wrought-iron gates and the buildings surrounding the square...



### ITFPC 15 SCIENTIFIC COMMITTEE

*Chair:* D. Hegemann (St. Gallen, CH)

*Co-chairs:* G. Henrion & J.F. Pierson (Nancy, F)

*Members:*

- |                               |                                  |
|-------------------------------|----------------------------------|
| A. Anders (Berkeley, USA)     | F. Alvarez (Campinas, BR)        |
| M.C. Asencio (Paris, F)       | J. Benedikt (Bochum, G)          |
| R. Boxman (Tel-Aviv, IL)      | P. Brault (Orléans, F)           |
| A. Cavaleiro (Coimbra, P)     | P. Choquet (Belvaux, L)          |
| W. Daoud (Honk Kong, HK)      | M.P. Delplancke (Brussels, B)    |
| C. Dong (Dalian, PRC)         | A. Fernandez (Sevilla, E)        |
| R. Jimenez Rioboo (Madrid, E) | K. Haenen (Hasselt, B)           |
| S. Maat (San Jose, USA)       | P. Muller (Marseille, F)         |
| C. Nebel (Freiburg, GER)      | F. Poncin-Epaillard (Le Mans, F) |
| F. Rossi (Ispra, I)           | L. Zajickova (Brno, CZ)          |



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Phone: +33(0)1 53 01 90 30 - Fax: +33(0)1 42 78 63 20

## 1<sup>st</sup> ANNOUNCEMENT

*Innovations in Thin Film Processing  
and Characterisation - ITFPC 15*



November 16 – 20, 2015  
Nancy (France)

[www.vide.org/itfpc15/](http://www.vide.org/itfpc15/)



For more information visit

<http://www.vide.org/itfpc15/>



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Internationale Union für Vakuum Forschung, Technik und Anwendung

## News from the German Vacuum Society (DVG)

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A new executive board of the German Vacuum Society (DVG) was elected in Summer 2014:  
President remains Prof. Kopnarski, IFOS Kaiserslautern, vice-presidents are Dr. Ute Bergner, Vacom Jena, and Prof. Dietrich Zahn, TU Chemnitz.

DVG also co-organized the tradition vacuum conference and meetings AOFA-18 and SVST8 in Kaiserslautern

### 1. Ankündigung &

Aufforderung zur Beitragseinreichung



18. Arbeitstagung  
**Angewandte  
Oberflächenanalytik  
AOFA**



Veranstaltungsort:



Kaiserslautern  
29. September – 1. Oktober 2014



### 1. Announcement &

Call for Papers



**5-th Symposium  
on Vacuum based Science  
and Technology**

in conjunction with

**9-th annual Meeting of  
German Vacuum Society DVG**

Kaiserslautern

September 30 - October 2, 2014





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

## Obituary

### Prof. John L. Robins (1935-2014)

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

It was with great sadness that IUVSTA members heard the news of the death, on 1st October 2014 of John L. Robins. John was the President of IUVSTA during the 1995-1998 triennium.



John L. Robins was born in Perth, Australia in 1935. He obtained a PhD in Physics (1962) from the University of Western Australia (UWA). He then held research appointments with the National Research Council in Canada and Cornell University in the USA before returning to Australia as a Queen Elizabeth II Fellow in 1966. During the period 1968–1994, he was a member of the academic staff of the UWA. After retirement, he was nominated as an Honorary Professor and Senior Honorary Research Fellow. His constant and strong dedication to the University of Western Australia had been recognized through the award of the Chancellor's Medal in 1999. John's contribution to his Alma Mater's centenary celebrations in 2013 was to write and publish a 'History of the UWA Physics Department, covering every aspect of the Department's first hundred years. In addition to his UWA appointment, John Robins was also a Visiting Professor at Curtin University of Technology and an Adjunct Professor at Murdoch University, both in Western Australia. During his period of activity, he also spent periods of study leave at

Cambridge University and the University of York in England, the National Bureau of Standards (now NIST) in the USA and Shizuoka University in Japan. His research interests were related to Vacuum Science, Thin Films, Surface Physics and Materials Science. He published approximately 55 scientific articles including three book chapters. He has been the Australasian Editor for the journal "Vacuum" and member of the Editorial Advisory Boards of "Vacuum" and "Progress in Surface Science".

Professor Robins was a Fellow of the Institute of Physics (London), a Fellow of the Australian Institute of Physics and a Foundation Member of the Vacuum Society of Australia.

Professor Robins served IUVSTA in many capacities: as Recording Secretary (1980-83), Welch Scholarship Trustee (1986-1989), Councilor and Alternate Councilor for Australia for various terms, Visual Aids Editor-in Chief (2001-2007), President-Elect (1992–1995), President (1995-1998) and Past-President (1998-2001). He was Editor of the 2nd edition of the "History of IUVSTA" and its companion volume "Short Histories of the National Vacuum Societies within IUVSTA" published in 2001.

His wisdom and the clear way he was conducting debates and discussions, encouraging and listening to all points of view, were much appreciated during his leadership. John Robins was a true gentleman. He was thoughtful and indulgent, always looking at things in a positive way. He will be sorely missed.

Our sympathy goes out to his wife Joan and family.



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## Obituary

### Dr. Jean-Paul Langeron (1928-2014)

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

**Jean-Paul Langeron passed away on 23rd August, 2014 at the age of 86.**

Jean-Paul Langeron was born in Le Creusot (Burgandy region, France). He completed his diploma as engineer at the Ecole Nationale Supérieure de Chimie de Paris (National School of Chemistry, Paris) and received his doctor's degree from the University of Paris. He spent his entire scientific career at the Centre d'Etudes de Chimie Métallurgique (Institute for Chemical Metallurgy), a laboratory belonging to the National Scientific Research Center (CNRS) and located in Vitry-sur-Seine, (Paris suburbs).



The early work of Jean-Paul Langeron was related to the purification of zirconium by zone-melting and the influence of impurities on the mechanical and electrical properties of the metal. With the help of his co-workers, he soon extended this work to other metals such as molybdenum. Having noticed the importance of segregation of impurities to the surface and the grain boundaries on metal properties, he started in 1975 to apply Auger electron spectroscopy (AES) to study segregation and passivation phenomena. He quickly expressed a particular interest in the development of formalisms for a quantitative approach to Auger electron and photoemission spectroscopies, which led him to discuss and collaborate with the best international experts in the field. His expertise and patience to unravel the most complex spectra have also been much appreciated by the aeronautics industry, for which he remained a consultant until 2010.

Jean-Paul Langeron was a Fellow of the French Vacuum Society (SFV), in which he was very active, including as President (1981-1983; 1984-1985). He represented the SFV within the International Union for Vacuum Science, Technology and Applications (IUVSTA), as a member of several scientific divisions until 1992 and as Councillor or Alternate Councillor for France from 1983 to 1995. He organised or co-organised several international meetings or conferences, including two IUVSTA workshops on AES (11th IUVSTA Workshop, St. Pierre de Chartreuse, 1995) and XPS (34th IUVSTA Workshop, Saint-Malo, 2002).

His friends and colleagues will also remind Jean-Paul Langeron for his extremely friendly and open-minded personality.



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## Obituary

### Serge Choumoff (1921-2012)

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

**Serge Choumoff passed away on 3rd June 2012 at the age of 91.**

Serge Choumoff was a renowned expert in the field of leak detection and vacuum metrology. The JHP gauge (Jauge Haute Pression, or Choumoff gauge), described in the early 70's with lapteff as co-author, proved to be one of the most reliable high-pressure ionization gauge, although not commercially available. During his career as engineer, he worked for several companies (Compagnie française Thomson-Houston, Société générale du vide (Sogev), Thomson-Brandt and Hotchkiss-Brandt Sogeme (HBS)). In particular, he had been a major player in the design and implementation of European space simulators.



Serge Choumoff was a Fellow of the French Vacuum Society (SFV), in which he was strongly involved, serving as President in 1964-1965. He organised or co-organised a number of meetings, including the 1st International Congress on the Vacuum Techniques in Space Research (Paris, 1964) and was very active in the short courses programme developed by the SFV. He represented the SFV within the International Union for Vacuum Science, Technology and Applications (IUVSTA), as a Councillor or Alternate Councillor for France (1968-80 and 1983-92) and served as Treasurer during the 1977-1980 triennium. He remained highly interested in IUVSTA matters until his death, closely following the preparation of IVC-19 (Paris, 2013). Serge Choumoff was also a Fellow of the American Vacuum Society.

Serge Choumoff was not only a top scientist but also a man strongly committed to fighting against nazism. Arrested in 1942 for having supplied components for radio transmitters to the French Resistance, he was deported to Gusen and Mauthausen. From 1997, he published several historical studies related to concentration camps.

Serge Choumoff held numerous French and foreign prestigious military and civilian decorations.

It had been a great honor to know him and we will remember him with admiration and respect