

IUPAC Elections for the 2016–2017 Term

Every two years, IUPAC holds an election for its officers and committee members. About 120 individuals are to be elected or reelected either as Titular Members, Associate Members, or National Representatives. Information concerning the voting process and the role of each kind of member is contained in the Union bylaws (see www.iupac.org/home/about/organizational-guidelines.html).

Any qualified individual who is interested in being nominated is invited to contact his/her National Adhering Organization (NAO) and/or the current committee officers. The next election will cover a two- or four-year term that will start in 2016. Every division committee and standing committee will have vacancies.

As part of the nomination procedure, NAOs are invited to submit curriculum vitae for each nominee to the IUPAC Secretariat no later than **31 March 2015**. Elections for each committee will take place during the second trimester of 2015 and the 2016–2017 memberships for all committees will be finalized during the next IUPAC General Assembly in August 2015. Individuals interested in becoming officers on the IUPAC Bureau should contact their NAOs. Nominations for officers have a different timeline and can only be made by an NAO. Officer elections will take place at the Council Meeting during the next General Assembly.

Contact information for all NAOs and division and standing committee officers is available on the IUPAC website, or upon request at the IUPAC Secretariat; e-mail <secretariat@iupac.org>; tel.: +1 919 485 8700; fax +1 919 485 8706; www.iupac.org

Winners of the 2014 IUPAC-SOLVAY International Award for Young Chemists

In May 2014, IUPAC and Solvay announced the winners of the 2014 IUPAC-SOLVAY International Award for Young Chemists presented for the best PhD theses in the chemical sciences as described in 1000-word essays.

The five Winners are:

- **Keary Mark Engle**, USA/UK - The Scripps Research Institute, La Jolla, California, USA, joint with University of Oxford, UK

- **Albert C. Fahrenbach**, USA—Northwestern University, Evanston, Illinois, USA
- **Yohei Ishida**, Japan - Tokyo Metropolitan University, Japan
- **Ahmad Masarwa**, Israel - Technion-Israel Institute of Technology, Haifa, Israel
- **Rodrigo Andreas Vargas Jentzsch**, Switzerland - University of Geneva, Switzerland

The Winners will each receive a cash prize of USD 1000 and travel expenses to the 45th IUPAC World Chemistry Congress, 9–14 August 2015, in Busan, Korea. Each prizewinner is also invited to present a poster at the IUPAC Congress describing his/her award-winning work and to submit a short critical review on aspects of his/her research topic to be published in *Pure and Applied Chemistry*. The awards will be presented to the winners during the Opening Ceremony of the Congress.

The essays describing the 2014 Winners' theses may be found on the IUPAC web site and cover a wide range of subject matter:

- Dr. Engle: (1) Ligand-Accelerated Catalysis in Palladium(II)-Mediated C–H Functionalization; and (2) Hydrogen-Bonding Effects on the Reactivity of Fluoride Anion
- Dr. Fahrenbach: Molecular Switches Based on Donor-Acceptor, Radical and Coulombic Interactions - From Solution, to Solid-State to Application
- Dr. Ishida: Artificial Light-Harvesting System by Supramolecular Host-Guest Assemblies
- Dr. Masarwa: Selective Metal-Mediated C–C Bond Activation of Strain Compounds: Application to Challenging non-Natural Product Synthesis
- Dr. Vargas Jentzsch: Anion Transport with Anion- π Interactions and Halogen Bonds

There were 55 applications from 20 different countries. The Prize Selection Committee comprised members of the IUPAC Bureau with a wide range of expertise in chemistry. Professor Kazuyuki Tatsumi, former IUPAC President, chaired the committee. The 2014 International Award for Young Chemists is the first sponsored by Solvay and is intended to encourage outstanding young research scientists at the beginning of their careers. In making their decisions, the jury was keen to recognize a global representation of the awards in line with the pool of applications.

In view of the many high-quality applications, the Committee also decided to give four Honorable Mention Awards to:

- Yoichi Hoshimoto, Japan - Osaka University, Japan
- Frank A. Leibfarth, USA - California Institute of

Technology, Pasadena, California, USA

- Robert J. Macfarlane, USA - Northwestern University, Evanston, Illinois, USA
- Xuemei Sun, China - Fudan University, Shanghai, China

The recipients of Honorable Mention Awards will receive a copy of the *Principles of Chemical Nomenclature – A guide to IUPAC Recommendations*. The book is published by Royal Society of Chemistry (UK) and offered with the compliments of RSC Publishing.

Now in its 15th year, the International Award for Young Chemists has steadily attracted bright young chemists. Everyone is invited to review the latest collection published in *Pure and Applied Chemistry* covering last year's awards, which appeared in January 2014. Also, in 2011, PAC published a special issue, fittingly subtitled "Perspectives and Challenges" inviting winners of the very early years of the prize. IUPAC is proud of its commitment to engage and encourage young scientists. Hopefully, the contents of these PAC issues will inspire and enthuse readers with fascinating insights into new and emerging aspects of chemical sciences.

Applications for the 2015 Prizes are now being solicited; application deadline is 1 February 2015.

 www.iupac.org/news/news-detail/article/2015-iupac-solvay-international-award-for-young-chemists-announced.html

Steven V. Ley wins 2014 IUPAC-ThalesNano Prize in Flow Chemistry

University of Cambridge professor Steven V. Ley (Cambridge, UK) is the 2014 recipient of the IUPAC-ThalesNano Prize in Flow Chemistry. The award was presented on 25 June 2014 at the International Conference on Microreaction Technology (<http://www.imretconferences.com>) in Budapest, by former IUPAC Committee of Chemistry and Industry (COCI) Chair Prof. Michael Droescher and Dr. Ferenc Darvas for ThalesNano and for the Flow Chemical Society.

This award was established in 2012 by a generous gift from the Hungarian Technology company ThalesNano Inc. to acknowledge the key role that flow chemistry plays in improving chemical processes. The prize of 7500 USD goes to an internationally recognized scientist whose activities or published accounts have



Steven V. Ley (center) receiving his award from Michael Droescher (right) and Dr. Ferenc Darvas (left).

made an outstanding contribution to the practice of flow chemistry. ThalesNano also provides support for travel by the recipient to the prize ceremony. The prize is awarded biannually, and ThalesNano will provide the funds for the first 10 years.

Professor Ley receives this award for his outstanding contribution and creative work in methodologies for organic synthesis, especially in multi-step synthesis in continuous flow chemistry reactor systems. With his work in flow chemistry, published in over 80 papers, Prof. Ley contributed several landmark discoveries. His success has also been fueled by continued instrument development in flow chemistry with commercial organizations.

Flow chemistry focuses on synthesis of functional molecules, which plays an important role in modern society. However, the labor intensive and wasteful synthesis practices of the past are no longer acceptable. Prof. Ley began a campaign in the early 1990s to develop enabling technologies to improve the synthesis process. By demonstrating the power of immobilized reagents and scavengers he was able to achieve multi-step synthesis in a clean fashion, avoiding the wasteful practices of chromatographies, crystallizations, distillations, and water washes or extraction. He demonstrated that these systems could be incorporated with automation into continuous flow processes to achieve multi-step synthesis with minimum purification and work up.

Prof. Ley has received more than 50 major prizes and awards, many distinguished named lectureships and visiting professorships. He has served in many international and national appointments and committees.

 www.iupac.org/news/latest-news