

Editors Note: Below you will find the 2015-1 Newsletter; it was compiled thanks to your kindness to send material. So keep sending your items, including pictures, or suggested topics for future issues, via email to ohrstrom@chalmers.se. Please circulate this newsletter to your NAO:s and other interested parties. Kindest regards, Lars Öhrström.

Division II Members 2016-2017

President: [Reedijk, Jan](#); **Vice President:** [Öhrström, Lars](#); **Secretary:** [Leskelä, Markku](#);
Titular members: [Loss, Robert D.](#), (Past President) [Armelaio, Lidia](#); [Ding, Tiping](#), [Karen, Pavel](#);
[Rabinovich, Daniel](#); [Walczyk, Thomas](#); [Wieser, Michael](#)
Associate members: [Drabik, Milan](#); [Sakai, Ken](#); [Trendafilova, Natasha](#); [Meesuk, Ladda](#); [Abdul Aziz, Farina](#); Colon, Jorge
National representatives: [Galamba Correia, João](#); [Kalmykov, Stepan](#); [Mathur, Sanjay](#); [Kiliç, Adem](#);
Hasegawa, Miki; Knauth, Philippe; Yoon, Kyung Byung; Diop, Mayoro; Darkwa, James; Leigh, Jeffery

Division II Subcommittees and Commissions currently in operation are the following:

[Subcommittee on Isotopic Abundance Measurements](#)
[Interdivisional Subcommittee on Materials Chemistry](#)
[Commission on Isotopic Abundance and Atomic Weights](#)
[Stable Isotope Reference Material Assessment](#)

Busan Division Meeting & related items

An important point of the division's 1.5 day meeting during the IUPAC General Assembly was to interact with other divisions. We discussed important issues with the Committee on Chemistry Education (CCE) and Division VIII, Chemical Nomenclature and Structure Representation. We got reports from the Inter-divisional Subcommittee on Materials Chemistry as well as of the collaboration with the International Union of Geological Sciences (IUGS). The division's budget is in order and used for projects (69%) and meetings (31%). All the projects are well within budget. The minutes have been distributed to the members.



From left to right: Yang F. Abdul Aziz (Malaysia), Lars Öhrström (Sweden), Jan Reedijk (The Netherlands), Javier Martinez (Spain), Guillermo Ahumada (Chile), Ken Sakai (Japan), Markku Leskelä (Finland), Tiping Ding (China), Daniel Rabinovich (USA), James Darkwa (South Africa), YO Claudio Verani (USA), Joseph Buchweishaija (Tanzania), YO Luisa Whittaker-Brooks (USA), Miki Hasegawa (Japan). Absent is Milan Drábik (Slovakia) and division past president Kaz Tatsumi (Japan).

Scheduled 2016 Meeting of Division II.

The Division Committee has an off year meeting scheduled for 2 days during the ICCS Conference in Brest, France, July 7-11 2016.

Project Progress & News

Project 2014-024-1-200 [Development and Global Dissemination of an IUPAC Interactive Electronic Isotopic Periodic Table and Supporting Resources for the Education Community](#) is under way with Norman Holden as chair: an important collaboration with CCE.

Project 2014-001-2-200 [Terminology guidelines and database issues for topology representations in coordination networks, metal-organic frameworks and other crystalline materials](#) (chair Lars Öhrström) met in Samara Russia in May 2015 during a [co-sponsored symposium](#) and made an unexpected appearance on [Russian television](#) news. A [progress report](#) was presented at the [EuroMOF](#) meeting in Berlin.

Project 2014-031-3-600 [The environmental and health challenges of e-waste and its management: an emerging 21st century global concern, \(div III\)](#) now has Lidia Armelao as a div. II monitor.

Project 2008-040-1-200 [Towards Comprehensive Definition of Oxidation State](#) Project chair Pavel Karen wrote a [summary essay](#) in *Angewandte Chemie*, March 2015.

Project 2009-012-2-200 [Coordination polymers and metal organic frameworks: terminology and nomenclature guidelines](#) An [editorial](#) in *Angewandte Chemie* commented on this project and the PAC report was [translated into German](#).

Project Planning

Group 3 project. The position of Lawrencium in Periodic Table has been questioned because of the paper of Sato *et al.* ([Nature 520 \(2015\) 209.](#)) where they report its ionization potential. A following [comment in Nature](#) highlight the issues. After discussion at the division meeting in Busan the recommendation is that a project should be created and Prof. Eric Scerri was invited to submit a project. A revised project plan is currently being prepared.

Towards a Comprehensive Definition of Valence. Proposal in preparation by Pavel Karen.
Classification of Solid State Compounds by chemical bonding Proposal in preparation, Robin Macaluso (Univ. of Texas at Arlington, YO in 2013).

Report on New Elements

As reported by John Corish at the Busan GA the IUPAC/IUPAP Joint Working Party (JWP) is expected to deliver their report in Pure and Applied Chemistry over the possible new elements ununtrium (113), ununpentium (115), ununseptium (117) and ununoctium (118) later this year. The outcome may be from zero to four new elements to be added to the periodic table.

Naming of New Elements

The JWP will also decide on priorities for the discoverers, thus which groups will get to propose names to IUPAC (and in practice to division II). For the naming procedure the W. H. Koppenol, [Naming of new elements \(IUPAC Recommendations 2002\)](#), *Pure Appl. Chem.* **2001**, *74* (5), 787–791.) have been slightly updated, the most important change being “that the names of all new elements should have an ending that reflects and maintains historical and chemical consistency. This would be in general “-ium” for elements belonging to groups 1-16, “-ine” for elements of group 17 and “-on” for elements of group 18.” This is a change from the previous recommendation that all new element names should end with -ium. This change was discussed in some detail by div. II members present at the GA in Busan, with other IUPAC officials and members, and with non-present div II members over email. The [proposed amended recommendations](#) are open for public review and comments on the IUPAC website.

Wikipedia and Division II

All division members are urged to read and also edit relevant pages in Wikipedia, in English or other languages. Note that editing Wikipedia articles is a very easy procedure.

Report on Division II Elections

A new model to speed up the election process was taken into use by IUPAC this year. Elections are

prepared in a committee where the division's representative is the vice-president. Voting is made electronically and taken care by the secretariat. The NAOs are suggesting candidates but based on those it is difficult select people so that we can fulfill the requirements of different expertise (atoms, molecules, materials), geography and gender. Nevertheless we are satisfied that we now have a very good membership. The percentage of women now amounts to 19, going up to 25 % if we count only the elected TM:s and AM:s. Although South America is not represented Latin America is.



A map representation of the 2016-17 IUPAC Division II committee members. Blue: men, red: women, purple one of each (special permission from the Executive Committee to have two members from Japan)

IUPAC Sponsored Conferences

XXV. International Conference on Coordination & Bioinorganic Chemistry (25th ICCBiC), June 2015, Slovakia The conference celebrated a 50 years jubilee. This year 76 scientists from abroad and 43 scientists from Slovakia participated to the conference, geographically 26 countries from four continents were represented. Active participation of 40 colleagues younger than 35 is a sign of the challenging future of both coordination chemistry and the series of ICCBiC. The next conference in this series - XXVI. ICCBiC, will be held on July 4th – 9th 2017 again in Smolenice Castle, Slovakia

News of Division Members

Research from Sanjay Mathur on magnetic resonance imaging was featured in [The Times of India](#) and Kyung Byung Yoon's work on CO₂ capturing materials highlighted in [Chemistry World](#). Javier García-Martínez, has been awarded the [Emerging Researcher Award 2015](#) by the American Chemical Society's (ACS) Division of Energy & Fuels.

Note on Expelled NAO:s

The Spanish and Tanzanian National Adhering Organizations failed to pay their dues and were thus, according to IUPAC bylaws, expelled in 2015. Spain has now been readmitted and we have reasons to believe the same will happen with Tanzania. Division II will keep the former members from these NAO:s on the mailing list and will invite them as observers to future meetings.

Membership of the Inorganic Chemistry Division Committee 2016-2017

Name	Status	Term	NAO
Prof. Jan Reedijk	TM – President	2014-2017	Netherlands
Prof. Lars Öhrström	TM – Vice President	2014-2017	Sweden
Prof. Markku Leskelä	TM – Secretary	2012-2017	Finland
Prof. Lidia Armaleo	TM	2016-2017	Italy
Prof. Tiping Ding	TM 2 nd term	2014-2017	China/Beijing
Prof. Pavel Karen	TM	2016-2017	Norway
Prof. Robert D. Loss	TM – (Past President)	2016-2017	Australia
Prof. Daniel Rabinovich	TM (project coordinator)	2016-2017	United States
Prof. Thomas R. Walczyk	TM 2 nd term	2014-2017	Switzerland
Prof. Michael Wieser	TM 2 nd term	2014-2017	Canada
Prof. Natasha Trendafilova	AM	2016-2017	Bulgaria
Prof. Ken Sakai	AM-2 nd term	2014-2017	Japan
Prof. Y Farina Abdul Aziz	AM	2016-2017	Malaysia
Prof. Jorge ColónA	M2	016-2017P	uerto Rico
Dr. Milan Drábik	AM	2016-2017	Slovakia
Prof. Ladda M. Meesuk	AM	2016-2017	Thailand
Dr. Philippe Knauth	NR	2016-2017	France
Prof. Sanjay Mathur	NR	2016-2017	Germany
Prof. Miki Hasegawa	NR	2016-2017	Japan
Prof. Kyung Byung Yoon	NR	2016-2017	Korea
Prof. João Galamba	NR-2 nd term	2014-2017	Portugal
Prof. Stepan N. Kalmykov	NR-2 nd term	2014-2017	Russia
Dr. Mayoro Diop	NR	2016-2017	Senegal
Prof. James Darkwa	NR	2016-2017	South Africa
Dr. Adem Kiliç	NR	2016-2017	Turkey
Prof. Jeffery Leigh	NR	2016-2017	UK

10 TMs, 6 AMs, 10 NRs

AM = Associate Member

NR = National Representative

TM = Titular Member

Young Observers at the GA in Busan 2015

Guillermo Ahumada (Chile)

Claudio Verani (USA)

Luisa Whittaker-Brooks (USA)

Emeritus on the mailing list:

Dr. Norman E. Holden, United States

Prof. Kazuyuki Tatsumi, Japan (past div II president, past IUPAC president)

We thank the leaving members:

Edit Y. Tshuva (Israel), Rose-Nöelle Vannier (France), Amin Badshah (Pakistan), V. Chandrasekhar (India), and Biserka Prugovečki (Croatia)