



# IUPAC

International Union of Pure and Applied Chemistry

## Inorganic Chemistry Division (II) Newsletter 2013\_1

**Editors Note:** Below you will find the 2013-1 Newsletter; it was compiled thanks to your kindness to send materials. So keep sending your items, including pictures, or suggested topics for future issues, preferable via email to [Reedijk@chem.leidenuniv.nl](mailto:Reedijk@chem.leidenuniv.nl). I can handle most formats of attachments.

Kindest regards, and hoping to see many of you in Istanbul. Jan Reedijk.

### Division II Members 2012-2013

**President:** [Loss, Robert D.](#), **Vice President:** [Reedijk, Jan](#); **Secretary:** [Leskelä, Markku](#);

**Titular members:** [Mathur, Sanjay](#); [Drabik, Milan](#); [Sakai, Ken](#); [Holden, Norman E.](#); [Öhrström, Lars R.](#); [Karen, Pavel](#); [Tshuva, Edit Y.](#)

**Associate members:** [Ding, Tiping](#); [Garcia-Martinez, Javier](#); [Buchweishajja, Joseph](#); [Rabinovich, Daniel](#); [Vannier, Rose-Noelle](#); [Kiliç, Adem](#);

**National representatives:** [Abdul Aziz, Farina](#); [Trendafilova, Natasha](#); [Prugovečki, Biserka](#); [Chandrasekhar, V.](#); [Youngme, Sujittra](#); [Toma, Henrique](#); [Ali Saqib](#).

**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](#)

### Project Planning and Progress News:

A joint project, joint with Divisions VIII and IV, proposing the [revision and extension of the 1984 recommendations of \(single-stranded\) metal-based coordination polymers](#) had been granted in 2011.

The group had a first meeting, in the end of February 2012 in Leiden, NL, followed by an informal meeting in Cologne, Sept. 7, 2012 of a subgroup, consisting of Lars Öhrström, Richard Jones and Jan Reedijk. The convenor of the group is Prof. Richard Jones from Division IV, and he plans to handle all received comments during 2013. The final report is expected during 2013, or early 2014.

**The MOF project** (convenor prof. Lars Öhrström:

<http://www.iupac.org/web/ins/2009-012-2-200>)

reports as follows: The IUPAC task group on "Coordination polymers and metal organic frameworks: terminology and nomenclature has submitted a final report to Pure and Applied Chemistry and is currently in the review state.

The **Oxidation State Project** 2008-040-1-200, "[Towards a comprehensive definition of oxidation state](#)" is nearing completion, after the brief report in our previous Newsletter. A manuscript of the project's Technical Report has been produced. It introduces several novel approaches to oxidation state. Instead of definitory algorithms, there is one single generic definition based on ionic approximation of heteroatomic bonds. For the latter, the team has tested three alternative interpretations: bond polarity, average valence-orbital energy of the isolated atom, and the atom's contribution to the

bonding MO. The Technical Report has been made available in the Division II web-discussion forum. Later it will go through the IUPAC peer review process and PAC editorial treatment. In addition, a short Recommendation will be drafted and discussed with a destination for the world-wide on the IUPAC website.

### Duties of Division Members

Starting in 2012 all division member duties (TM&AM) have been made visible in a matrix table. This was prepared on the request of the newly elected members. A [welcome package](#) for the new members has been updated and was distributed to all newly elected members (2012-2013). (*Copies are still available for others, if wished so*).

### In Memoriam Norman Greenwood

It is with great sadness that we learned that Norman Greenwood passed away on 14 November 2012. He was surrounded by his family and departed peacefully. Norman was a highly distinguished member of the IUPAC Atomic Weights Commission and served as the Chairman in the 1960s and 1970s. Norman was a Fellow of the Royal Society and a Foreign Member of the French Academy of Sciences and played a key role in establishing the criteria for recognizing the discovery of new elements, which now form an integral part of the IUPAC. A brief overview of his life has been provided by his former university.

Having previously held a Chair at the University of Newcastle-upon-Tyne, Professor Greenwood came to Leeds in 1971 as Professor

and Head of the Department of Inorganic and Structural Chemistry. His research on solid-state chemistry and the chemistry of boron hydrides was of singular distinction and brought him many honours and awards, culminating in his election as a Fellow of the Royal Society in 1987. His prominence in his specialist field of research was paralleled by a deep-seated interest in, and commitment to, undergraduate education. He was, for example, the senior author of what became an internationally best-selling text book in inorganic chemistry. By dint of his powers of incisive analysis, and his measured, thoughtful and effective contributions to debate, Professor Greenwood's was one of the most highly-respected voices in the governance of the University. He served continuously on the Senate from 1971 until his retirement in 1990; sat on many major committees; and served as the Chair of the Board of the Faculty of Science and of the School of Chemistry. He was equally influential in many national and international scientific organisations.

In retirement, Professor Greenwood remained, until very shortly before his death, a regular and welcome visitor to the University. An obituary from the University of Leeds can be consulted here: [http://www.leeds.ac.uk/forstaff/news/article/3582/emeritus\\_professor\\_norman\\_greenwood](http://www.leeds.ac.uk/forstaff/news/article/3582/emeritus_professor_norman_greenwood) Readers who wish to hear Norman telling the story of his life as a scientist, are referred to the collection of interviews on [webofstories.com](http://www.webofstories.com):

<http://www.webofstories.com/play/53640>.  
**Elections Division Committee 2014-2015**

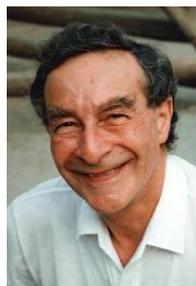
The outcome of the elections for the next biennium, held at the end of 2012, is as follows. After ratification by the Council in Istanbul, the appointments will start January 1, 2014.

The list of **Titular Members** will be:

*Jan Reedijk, President*  
*Lars Öhrström, Vice-President*  
*Markku Leskelä, Secretary*  
*Robert D. Loss, Past-President*  
*Tiping Ding*  
*Milan Drábik*  
*Daniel Rabinovich*  
*Edit Y. Tshuva*  
*Thomas R. Walczyk*  
*Michael Wieser*

From these the last 2 are new, so here is a brief introduction.

**Thomas Walczyk** is an Associate Professor at the National University of Singapore at the Department of Chemistry (Science) and Department of Biochemistry (Medicine). His research focuses on the application of stable isotope techniques for studying element metabolism in humans.



His research on solid-state chemistry and the chemistry of boron hydrides was of singular distinction and brought him many honours and awards, culminating in his election as a Fellow of the Royal Society in 1987. His prominence in his specialist field of research was paralleled by a deep-seated interest in, and commitment to, undergraduate

**Michael Wieser** is an Associate Professor in the Department of Physics and Astronomy, University of Calgary, Canada. His expertise is in the field of Stable Isotope Ratio Mass Spectrometry.



The elected **AM members** are:

*Javier García-Martínez*  
*Pavel Karen*  
*Adem Kiliç*  
*Rose-Nöelle Vannier*  
*Joseph Buchweishajja*  
*Ken Sakai*

All of them have served previously in the Division. The **Elected National Representatives** are:

*Lidia Armelao*  
*Yang F. Abdul Aziz*  
*Amin Badshah*  
*V. Chandrasekhar*  
*João Galamba Correia*  
*Stepan N. Kalmykov*  
*Sanjay Mathur*  
*Ladda M. Meesuk*  
*Biserka Prugovečki*  
*Natasha Trendafilova*

We welcome for the first time in our Division:

**Lidia Armelao** from Italy. Lidia Armelao, works at ISTM - CNR, Department of Chemistry, University of Padova.



**Amin Badshah** from Pakistan. Prof. Badshah is Chairman of the Department of Chemistry, Quaid-i-azam University in Islamabad.



**João Galamba Correia** from Portugal. Dr. Correia works as associate researcher at Instituto Tecnológico e Nuclear in Sacavém, in the field of Inorganic and Radiopharmaceutical Chemistry.



**Stepan N. Kalmykov** from Russia. Dr.

Kalmykov is full professor, and head of the Radio-chemistry division of the Department of

Chemistry at Lomonosov Moscow State University.

**Ladda Meesuk**, Thailand, is an associate professor at the Kasetsart University in Bangkok. Her field is Inorganic Chemistry and Materials Sciences.

