

New Members

Klinge, Julia, Dr., 37077 Göttingen, Deutschland
Martelletti, Arianna, Dr., 65843 Sulzbach im Taunus, Deutschland

Molnar, Péter, Prof., 7624 Pecs, Ungarn
Zuber, Gérard, Dr., 27705 Durham, USA

INFORMATION

News

IUPAC Prize for Young Chemists

Supporting the Future of Chemistry

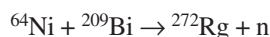
The encouragement of young research scientists is critical to the future of chemistry. With a prize of USD 1000 and paid travel to the next IUPAC Congress, the **IUPAC Prize for Young Chemists** encourages young chemical scientists at the beginning of their careers. The prize is based on graduate work and is given for the most outstanding Ph.D. thesis in the general area of the chemical sciences, as described in a 1000-word essay.

- Call for Nominations: Deadline is 1 February 2005.
- For more information, visit www.IUPAC.org/news/prize.html or contact the Secretariat by e-mail at secretariat@iupac.org or by fax at +1 919 485 8706.

Element 111 Is Named Roentgenium

Following the 80th Meeting of the Bureau in Bled, Slovenia, the name roentgenium for the element of atomic number 111, with symbol Rg was officially approved as of 1 November 2004. The IUPAC Council, at its meeting at Ottawa, Canada in 2003, delegated the authority to approve a name for the element of atomic number 111 to the Bureau.

In 2003, a joint IUPAC-IUPAP Working Party (JWP) confirmed the discovery of element number 111 by the collaboration of Hofmann *et al.* from the Gesellschaft für Schwerionenforschung mbH (GSI) in Darmstadt, Germany (*Pure Appl. Chem.* **75**, 1601–1611 (2003)). The most relevant experiment resulted from fusion-evaporation using a ^{64}Ni beam on a ^{209}Bi target, which produced a total of six decay chains of alpha-emitting nuclides following the presumed formation of $^{272}\text{Rg} + n$ (S. Hofmann *et al.*, *Z. Phys. A* **350**, 281–282 (1995); S. Hofmann *et al.*, *Eur. Phys. J. A* **14**, 147–157 (2002)).



In accordance with IUPAC procedures, the discoverers proposed a name and symbol for the element. The proposed name was **roentgenium**, with symbol **Rg**. The Inorganic Chemistry Division Committee then recommended this proposal for acceptance and the provisional recommendation has now successfully passed expert examination and the prescribed period of public scrutiny. This proposal lies within the long-established tradition of naming elements to honor famous scientists.

Wilhelm Conrad Roentgen discovered X-rays on 8 November 1895, a new type of rays to which he gave this name in view of their uncertain nature. Their use has subsequently revolutionized medicine, found wide application in technology and heralded the age of modern physics, which is based on atomic and nuclear properties.

In 1901, six years after their discovery, the benefit of X-rays to mankind was so evident that Roentgen was awarded the first Nobel Prize in Physics. Element 111 was synthesized exactly 100 years after Roentgen's discovery. To honor Wilhelm Conrad Roentgen, the name, roentgenium, was proposed for the element with atomic number 111.

IUPAC was formed in 1919 by chemists from industry and academia. For nearly 85 years, the Union has succeeded in fostering worldwide communications in the chemical sciences and in uniting academic, industrial and public sector chemistry in a common language. IUPAC is recognized as the world authority on chemical nomenclature, terminology, standardized methods for measurement, atomic weights and many other critically evaluated data. More information about IUPAC and its activities is available at www.iupac.org. For questions, contact Erin Slagle, IUPAC Communications Specialist, Erin@iupac.org.

Honors/Ehrungen

Prof. em. *Albert Eschenmoser* und Prof. em. *Duilio Arigoni*, Laboratorium für Organische Chemie der ETH Zürich, sind als Mitglieder der «Europäischen Akademie der Wissenschaften» erkoren worden.

Prof. *Roel Prins*, Institut für Chemie- und Bioingenieurwissenschaften der ETH Zürich, wurde mit Ehrenprofessuren der Sichuan University in Chengdu, der Dalian University of Technology und der Taiyuan University of Technology geehrt.

Lectures

Berner Chemische Gesellschaft

Mittwoch, 16.30 Uhr
Hörsaal EG 16, Departement für Chemie und Biochemie,
Freiestr. 3
(Kaffee um 16.10 Uhr vor dem Hörsaal)

19. Jan. 2005 Prof. *Nazario Martin*
Departamento de Química Organica,
Universidad Complutense, Madrid
'Fullerene Supermolecules:
Towards Molecular Optoelectronic Devices'
26. Jan. 2005 Prof. *David A. Leigh*
Forbes Chair of Organic Chemistry,
University of Edinburgh
'Tooling Up for Nanoworld:
The 'Magic' of Molecular Machines'

Société Fribourgeoise de Chimie (SFC) Freiburger Chemische Gesellschaft (FCG)

Tuesday, 17.15 h
Grand Auditorium, Chemistry Department, Pérolles
Coffee, tea, and croissants will be served in front of the auditoire
about 30 min before the lectures.

11. Jan. 2005 Dr. *Christophe Curty*
SPIEZ LABORATORY, The Swiss agency
for NBC protection
'Chemical Weapons: The Situation Today'
25. Jan. 2005 Prof. *Pavel Jungwirth*
Institute of Organic Chemistry and
Biochemistry, Academy of Sciences of the
Czech Republic, Prague
'Molecular Modeling of Atmospheric
Aerosols: Ions at the Air/Water Interface'
1. Feb. 2005 Prof. *Paul Dyson*
Laboratory of Organometallic and Medicinal
Chemistry, Ecole polytechnique fédérale
de Lausanne
'Catalyst and Ionic Liquid Design for
Biphasic Chemistry'

Departement für Chemie und Biochemie der Universität Bern

Seminare in Anorganischer, Analytischer und Physikalischer Chemie

- Donnerstag, 11.15 Uhr, Hörsaal 481, Freiestr. 3
20. Jan. 2005 Dr. *Georg Papastavrou*
Dép. de Chimie Minérale, Analytique et

Appliquée, Université de Genève
'Polyelectrolytes at Solid Interfaces probed by
AFM: Adsorption and Interaction Forces
between Polyelectrolyte Covered Surfaces'

27. Jan. 2005 Prof. Dr. *James K. McCusker*
Department of Chemistry, Michigan State
University, USA
'Femtosecond Dynamics of Charge-Transfer
and Ligand-Field States in Coordination Com-
pounds'
28. Jan. 2005 Prof. Dr. *James K. McCusker*
Freitag
Hörsaal 379
Department of Chemistry, Michigan State
University, USA
'Intramolecular Electron Transfer in Heisen-
berg Spin-Coupled Donor/Acceptor
Assemblies'
3. Feb. 2005 Dr. *Richard Nichols*
Department of Chemistry, University of Liver-
pool, Liverpool, UK
'Single Molecule Conductance and Molecular
Wires'

Departement für Chemie und Biochemie der Universität Bern

Seminare in Organischer Chemie und Biochemie

16.30 Uhr, Freiestrasse 3
<http://www.dcb.unibe.ch>

6. Jan. 2005 Prof. *Nigel S. Simpkins*
Donnerstag
Hörsaal 379
School of Chemistry,
University of Nottingham, UK
'Recent Results in Asymmetric
Desymmetrisation'
6. Jan. 2005 Prof. *John A. Murphy*
Donnerstag
Hörsaal 379
University of Strathclyde, Glasgow, UK
'New Reagents and Their Uses'
10. Jan. 2005 Prof. *J. Stephen Clark*
Montag
Hörsaal 379
School of Chemistry,
University of Nottingham, UK
Title Open
11. Jan. 2005 Dr. *Nicholas H. Williams*
Dienstag
Hörsaal EG16
16.30 Uhr
Centre for Chemical Biology, Krebs Institute
for Biomolecular Science,
Department of Chemistry,
University of Sheffield, UK
'Phosphate Ester Hydrolysis: Using Multiple
Interactions to Get from Very, Very Slow to
Very Fast'

17. Jan. 2005
Montag
Hörsaal 379
16.30 Uhr
Prof. *Markus A. Rüegg*
Abteilung Pharmakologie/Neurobiologie,
Biozentrum Basel
'Molecular Mechanisms Involved in Synapse
Formation and neuromuscular
Disease'
18. Jan. 2005
Dienstag
Hörsaal EG16
16.30 Uhr
Prof. *Ben L. Feringa*
Department of Organic and
Molecular Inorganic Chemistry,
University of Groningen, NL
Title Open
24. Jan. 2005
Montag
Hörsaal 379
16.30 Uhr
Dr. *Daniel Krappmann*
Max-Delbrück-Zentrum für
Molekulare Medizin, Berlin
'Mechanism and Functions of IkappaB
Kinase/NF-kappaB Signalling in the
Immune System'
31. Jan. 2005
Montag
Hörsaal 379
16.30 Uhr
Prof. *Gottfried Baier*
Institut für Medizinische Biologie und
Humangenetik, Universität Innsbruck, A
'The PKC Gene Family: Molecular
Biosystematics to Resolve its T Lymphocyte
Functions'
1. Feb. 2005
Dienstag
Hörsaal 379
16.30 Uhr
Dr. *Jieping Zhu*
Institut de Chimie des Substances Naturelles,
CNRS, Gif-sur-Yvette, France
Title Open

Département de Chimie minérale, analytique et appliquée, Université de Genève

Sciences, Salle A-150, les mercredis à 6h30
30, quai Ernest Ansermet, Genève

- 12 janvier 2005 Prof. *Armin Reller*
Augsburg University, Augsburg, Germany
'Functional Materials in Regenerative Energy
System'
- 19 janvier 2005 Dr. *Francis Rondelez*
Université Pierre et Marie Curie, Paris, France
'Interactions moléculaires et cellulaires aux
interfaces'
- 26 janvier 2005 Prof. *Jeffrey Hubbell*
Institut des Sciences et Ingénierie Chimique,
Ecole Polytechnique
Fédérale de Lausanne
'Functional Polymers in Drug Delivery and
Regenerative Medicine'
- 2 février 2005 Prof. *Katharina Fromm*
Department of Chemistry, University of Basel
'Coordination Chemistry of Group
11 Elements: of Chains, Rings and Helices'

Département de Chimie Organique, Université de Genève

Sciences II, Auditoire A-100, 16h30
30, quai Ernest Ansermet, Genève
<http://www.unige.ch/sciences/chiorg/seminars.html>

- Lundi
17 janvier 2005 Prof. *Ben L. Feringa* (3ème cycle)
Department of Organic and Molecular
Inorganic Chemistry
University of Groningen, Groningen,
The Netherlands
'TBA'
- Jeudi
27 janvier 2005 Prof. Dr. *Peter H. Seeberger*
Laboratorium für Organische Chemie,
ETH Zürich, CH
'Automated Oligosaccharide Synthesis
to Advance Biology and Medicine:
From Carbohydrate Arrays to a
Malaria Vaccine'
- Jeudi
10 février 2005 Prof. A. *Dieter Schlüter*
Institut für Polymere, ETH, Zürich
'Synthesis of Single and Double-Stranded,
Shape-Persistent Macrocycles'
- Jeudi
17 février 2005 Prof. *Thomas R. Ward*
Institute of Chemistry, University of
Neuchâtel, Neuchâtel, CH
'Artificial Metalloenzymes for
Enantioselective Catalysis Based on the
Biotin-Avidin Technology'

Institut de Chimie, Université de Neuchâtel

- Lundi-Vendredi
10-15 jan. 2005 Cours du 3e cycle
10h30 Dr. *Petr Stepnicka*
Petit Auditoire Charles University, Prague,
République Tchèque
'Electrochemistry and Organometallic
Compounds'
- Mercredi
19 janvier 2005 Colloque du 3e cycle
10h30 Prof. *Ben Feringa*
Petit Auditoire University of Groningen, Pays-Bas
'Metallo-dentritic Catalysts and Dentritic
Effects in Catalysis: A Step towards Green
Chemistry'

Institut für Chemie- und Bioingenieur- wissenschaften (ICB), ETHZ

Sicherheit und Umweltschutz in der Chemie

freitags, 10.30 Uhr
Auditorium HCI H2
ETH Hönggerberg, 8093 Zürich
http://www.ethz.ch/about/location/ethhoengg/index_EN

21. Jan. 2005 *Andreas Cendra*
Ciba Specialty Chemicals, Kaisten
'From Specialties to Commodities'
4. Feb. 2005 *Fabio Visentin*
ICB, ETH Zürich
'Kinetic Study of Hydrogenation Reactions of Aromatic Nitro Compounds Using a New Reaction Calorimeter Combined with a FTIR Device'

Laboratorium für Organische Chemie der ETH Zürich

Montag, 16.30 Uhr
Hörsaal HCI J3
ETH Hönggerberg, 8093 Zürich

10. Jan. 2005 Prof. Dr. *Jeremy K.M. Sanders* FRS
Cambridge University, Cambridge, UK
'Dynamic Combinatorial Chemistry: New Opportunities for Molecular Recognition and Catalysis'
17. Jan. 2005 Prof. Dr. *Albert J.R. Heck*
Utrecht University, Utrecht, NL
'Folding and Dynamics of Proteins and Protein Complexes Monitored by Mass Spectrometry'
31. Jan. 2005 Prof. Dr. *Mohamed A. Marahiel*
Philipps Universität Marburg, Marburg, DE
'Molecular Mechanisms Underlying Nonribosomal Synthesis of Macrocyclic Peptides'

Institut Pharmazeutische Wissenschaften der ETH Zürich

Seminars on Drug Discovery and Development

Mittwoch, 17.15 Uhr
ETH Hönggerberg, HCI J3

19. Jan. 2005 PD Dr. *Oliver Zerh*
Organisch-Chemisches Institut, Universität Zürich
'Erkennung von Hormonen durch ihre Rezeptoren'
26. Jan. 2005 Prof. Dr. *Heather Maynard*
Department of Chemistry and Biochemistry,
University of California, Los Angeles
'Protein-polymer conjugates'
2. Feb. 2005 Prof. Dr. *Matthias Hamburger*
Institut für Pharmazeutische Biologie,
Universität Basel
'Development of new herbal entities – a case study of *Isatis tinctoria*'

Anorganisch-Chemisches Institut der Universität Zürich

- Friday, 17.00
Room 34 F 48
Winterthurerstrasse 190, Zürich-Irchel
14. Jan. 2005 Prof. *Christian Simon*
University of Basel
'History of Chemical Wood Protection – Targets and Side Effects'
21. Jan. 2005 Prof. *Aldo Steinfeld*
Institut für Energietechnik, ETHZ
'Solar Thermochemical Production of Hydrogen'
28. Jan. 2005 Prof. *Pierre Dixneuf*
Univ. Rennes 1
'Versatility of Ruthenium Carbenes in Catalysis'

Organisch-Chemisches Institut der Universität Zürich

- Dienstag, 17.15 Uhr
Hörsaal 91
Winterthurerstrasse 190, Zürich-Irchel
(siehe auch www.oci.unizh.ch)
11. Jan. 2005 Prof. Dr. *Gernot Frenking*
Fachbereich Chemie der Philipps-Universität Marburg (D)
'The Nature of the Chemical Bond – Old Questions, New Answers'
18. Jan. 2005 Prof. Dr. *Arne Skerra*
Institut für Biologische Chemie,
Technische Universität München (D)
'From Engineered Lipocalins to Bacterial Chaperones: Designing and Folding Beta-Barrel Proteins'
25. Jan. 2005 Dr. *Ernst-Rudolf F. Gering*
Bayer CropScience AG, Agricultural Center Monheim (D)
'Current Strategies in CropScience Research'
1. Feb. 2005 Prof. Dr. *Yannick Landais*
Laboratoire de Chimie Organique et Organométallique, Université Bordeaux 1, Talence (F)
'Free-Radical Functionalization of Chiral Allylsilanes'

Zürcher Hochschule Winterthur

Abteilung Chemie und Biologische Chemie, Chemiegebäude C402
Donnerstag, 17.00 Uhr

14. Jan. 2005
Freitag
gemeinsam mit NGW, 20.00 Uhr, L201
Prof. Dr. *Simon-P. Hoerstrup*
Universitätsspital Zürich
'Das Herz aus dem Reagenzglas – Chancen
und Risiken des kardiovaskulären Tissue-
Engineerings'

10. Feb. 2005
Dr. *Simon Rothe*
Berna Biotech AG, Bern
'GMP-Anwendung in der Praxis – aus der
Sicht eines modernen Biotechnologie-
Unternehmens'

Jan. 12, 2005
Prof. *Joanne A. Stubbe*
Massachusetts Institute of Technology,
Cambridge, USA
'Ribonucleotide Reductases: Radical Enzymes
with Suicidal Tendencies that are Excellent
Targets for Chemotherapeutics'

Feb. 3, 2005
Prof. *Jean-Marie Lehn*
Université Louis Pasteur, Strasbourg, France
'Constitutional Dynamic Chemistry'

Novartis Chemistry Lectureship 2004/2005

Location:

Novartis Pharma AG,
Auditorium Horburg, WKL-430.3.20
Müllheimerstrasse 195, CH-4057 Basel
Time: 10.30 am ('Get Together': 10.00 am)

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Congresses – Conferences – Workshops**DRUGS IN THE POSTGENOMIC ERA
DISCOVERY, DEVELOPMENT, AND CLINICAL ASPECTS**



Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

16 March 2005

Hönggerberg Campus
ETH Zürich
Zürich/Switzerland

HCI Auditorium G3

VENUE

Hönggerberg Campus
ETH Zürich
Wolfgang-Pauli-Strasse 10

From Zürich main station (Hauptbahnhof), Bahnhofquai

By tram and bus: Tram 11 to Bucheggplatz;
change to Bus 69 to ETH Hönggerberg

From Oerlikon station (Bahnhof Oerlikon)

By bus: Bus 80 to ETH Hönggerberg

By car

From Bucheggplatz follow the signs to ETH Hönggerberg;
use underground parking

FINAL PROGRAM

- 09:00 Welcome
Prof. *Heidi Wunderli-Allenspach*, Head Department of Chemistry and Applied BioSciences, ETH Zürich
- 09:15 Dr. *Dalia Cohen*, Global Head Functional Genomics, Novartis Institutes for Biomedical Research,
Cambridge, MA (USA)
«From Genome to Therapy»
- 10:00 Prof. *René Bernards*, Head Division of Molecular Carcinogenesis, The Netherlands Cancer Institute, Amsterdam
(The Netherlands)
«Identification of Novel Drug Targets Using RNA Interference»
- 10:45 Coffee Break and Posters
- 11:15 Prof. *Wolfgang Sadée*, Director Program in Pharmacogenomics, College of Medicine and Public Health, Ohio State
University, Columbus, OH (USA)
«Pharmacogenetics of Gene Regulation and mRNA Processing: An Abundant Source of Phenotypic Variability»

12:00	Lunch Break and Posters
14:00	Prof. <i>William E. Evans</i> , St. Jude Children's Research Hospital and University of Tennessee Colleges of Pharmacy and Medicine, Memphis, TN (USA) «Pharmacogenomics: Acute Lymphoblastic Leukemia (ALL) as a Cancer Paradigm»
14:45	Prof. <i>Michael Detmar</i> , Chair of Pharmacogenomics, ETH Zürich (Switzerland) «The Vascular System – a New Target for the Treatment of Cancer and Inflammation»
15:30	Coffee Break and Posters
16:00	Prof. <i>Hans-Joachim Böhm</i> , Head Discovery Technologies, F. Hoffmann-La Roche Ltd., Basel (Switzerland) «The Role of Chemical Genomics in Current Drug Discovery Research»
16:45	Concluding Remarks

ABOUT THE SYMPOSIUM

To exploit the large database of DNA sequences sampled from the human genome has become a hallmark for drug discovery and development. Although the promise of genomics may be more cumbersome to fulfill than initially hoped, it is now firmly established that the way to identify new potential drug targets has undergone a fundamental change. So have the strategies to discover lead compounds and develop the related therapeutics. Even more so, gene profiling has become a beneficial tool to come up with individualized therapies for distinct populations of patients in order to improve clinical efficacy, and lower side effects and toxicity.

To explain this context to a transdisciplinary audience interested in the future perspectives of drug discovery, development and clinical aspects in the postgenomic era, we have invited six distinguished experts in the field from both academia and the pharmaceutical industry.

This Symposium is a contribution of the Department of Chemistry and Applied BioSciences (D-CHAB) to the celebrations of the ETH Zürich within the framework of its 150th anniversary. The choice of the theme is also to reflect the recent departmental alliance between the Laboratories and Institutes of the former Department of Chemistry and the Institute of Pharmaceutical Sciences,

now located side by side on the Hönggerberg Campus of ETH Zurich, and constituting one of the largest research institutions of its kind worldwide.

Attendance

The Symposium is open to the interested public. We particularly invite an audience involved or interested in life sciences aspects in fundamental, preclinical and clinical drug research and development. Attendance and refreshments are free of charge. There is no registration necessary. For additional information regarding the Symposium please contact our website

<http://www.hci-feier.ethz.ch>

Location

Hönggerberg Campus, ETH Zürich, Wolfgang-Pauli-Strasse 10
Building HCI, Auditorium G3

Program Committee

K.-H. Altmann/A. Brändli/H.P. Merkle