



American Chemical Society
Division of Inorganic Chemistry

DIC Web- Site: <http://www.acsdic.wustl.edu/>

2005

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Membership

Bernadette T. Donovan-Merkert

Nomenclature

Spring Newsletter – 2005

Prepared by William E. Buhro, Secretary

ITEMS FOR SPECIAL ATTENTION

1. **2004 DIC ELECTION RESULTS.** The following candidates were elected in the 2004 election:

➤ CHAIR-ELECT:	Thomas Rauchfuss
➤ TREASURER-ELECT:	Mary Neu
➤ EXECUTIVE COMMITTEE:	Kristen Bowman-James
➤ COUNCILORS:	Jeffrey Long, Philip Power
➤ ALTERNATE COUNCILOR:	Sonya Franklin, Jonas Peters
➤ BIOINORGANIC CHAIR-ELECT:	Joan Broderick
➤ ORGANOMETALLIC CHAIR-ELECT:	Gerard Parkin
➤ SOLID STATE CHAIR-ELECT:	David Johnson
➤ NANOSCIENCE CHAIR-ELECT:	Thomas Mallouk

2. **NOMINATIONS SOUGHT FOR (2005) ELECTION**

In the Fall 2005 DIC election, which will be held in October-November 2005 the following offices will be filled:

- CHAIR-ELECT
- CHAIR-ELECT, BIOINORGANIC SUBDIVISION
- CHAIR-ELECT, ORGANOMETALLIC SUBDIVISION
- CHAIR-ELECT, SOLID STATE SUBDIVISION
- CHAIR-ELECT, NANOSCIENCE SUBDIVISION
- EXECUTIVE COMMITTEE MEMBER AT LARGE
- COUNCILOR
- ALTERNATE COUNCILOR

The Nominations Committee of the Division seeks suggestions for suitable candidates for the above positions. Please forward your suggestions to Tom Rauchfuss, Chair, DIC Nominations Committee, at rauchfuz@uiuc.edu.

3. MESSAGE FROM THE CHAIR – Cliff Kubiak

It is my honor to serve as Chair of the ACS Division of Inorganic Chemistry for 2005. We are grateful to Al Sattelberger for his dedication and service to the Division in his role as Chair for 2004, especially during a most tumultuous year for Al and Los Alamos National Laboratory. Al will remain as a member of the DIC Executive Committee, where we are certain to benefit from his wisdom and experience as we address issues facing the Division. I look forward very much to working with Tom Rauchfuss, who is Chair-Elect for 2005. I know that Tom will be ready to lead the Division by the time I “pass the torch” to him at the end of this year. I congratulate and welcome all of the new officers of the DIC who were elected for service in 2005. Sincere thanks go to those who agreed to run for office but were not elected. The Division is fortunate indeed to have so many capable members willing to devote their time and energy to the Division’s programs and activities.

I also want to give a special thanks to Kim Dunbar, who completed her term as Secretary in 2004, and to Bill Buhro, who has taken over the Secretary’s office. As a former Secretary of the DIC myself, I can assure you that the job is both extremely important and demanding. Kim’s leadership brought significant changes, most notably the adoption of electronic abstract books. This will save the Division in excess of \$50,000 per year, funds that can be used to seed new activities and strengthen others. Our new Secretary, Bill Buhro, has been hard at work upgrading the DIC website (<http://www.acsdic.wustl.edu/>).

In 2005, we have superb programming at the Spring and Fall ACS Meetings, in San Diego and Washington, D. C., respectively. I particularly look forward to welcoming DIC members to my home city of San Diego during the ACS meeting here, March 13 – 17, 2005. I hope you will be able to attend the symposia and general sessions that we have planned. The Division of Inorganic Chemistry has long led the other Divisions in the size and scope of our scientific programs at ACS meetings – a clear indication of our enthusiasm for science. The San Diego ACS Meeting has 951 INOR presentations scheduled, which is impressive (although it is 5 shy of the 956 scheduled for the ORGN Division).

As always, we continue to look for improvements in the services that we provide to our members and to strengthen the position of inorganic chemistry within the structure of ACS. There is one very simple way that we can strengthen the Division of Inorganic Chemistry. There are many inorganic chemists, particularly students, who are members of the ACS but have not yet joined our Division. I ask that you encourage these individuals to become members of the DIC. The resources allocated to DIC by ACS are directly related to the number of our members. Additional members thus can provide to DIC resources that can be directed to enhanced symposia, student travel awards, and young investigator awards, to name but a few.

I welcome other suggestions to improve the Division. Please feel free to send me e-mail at ckubiak@ucsd.edu with your suggestions.

4. MESSAGE FROM THE CHAIR-ELECT – Tom Rauchfuss

I look forward to helping the DIC as Chair-Elect and later Chair. The vitality of the DIC is manifested by our well-attended symposia and our outstanding journals. Given the DIC’s contributions to the success of the ACS meetings, we should aim to receive sufficient financial support to maintain our momentum and enhance the ACS’s focus as scientific organization, first and foremost.

A major function for the DIC is to identify topics for symposia at the national meetings that would be appealing. Sometimes interdisciplinary topics are very attractive and present special opportunities to apply inorganic chemical principles in new ways. Additionally, single disciplinary topics remain highly appealing, despite the political yearnings from Washington. So please think up areas, interdisciplinary and disciplinary alike, where progress has been rapid, under-appreciated, or just fun to hear about. I look forward to your suggestions.

I will also be responsible for putting together a slate of candidates to run for election to DIC offices in the Fall, 2005. Here too, I would appreciate suggestions of potential candidates for office (both young and eager, prospective Alternate Councilors as well as more senior prospective Chairs and Executive Committee members). Indeed, I would like to hear from you on any matters concerning the DIC and its sponsored activities.

5. MESSAGE FROM THE SECRETARY – Bill Buhro

I am pleased to begin my term as the Division's Secretary by thanking Kim Dunbar and her assistant Karen Farnsworth for their hard work and dedication in operating the Secretary's office for the past three years. I am especially grateful to Karen Farnsworth for her help and advice, and for the well-organized schedules and information she has provided me. She has given us a quick start here at Washington University. Thank you, Karen!!

I am assisted in my secretarial duties by Ms. Angela Potter. Some of you will recognize Angela as my editorial assistant in the *Chemistry of Materials* office at Washington University. Angela is largely responsible for the redesign of the DIC website (<http://www.acsdic.wustl.edu/>). This redesign is still a work in progress, and we welcome your suggestions for content and improvements. We will do our best to keep the website up to date. Angela is the DIC webmaster, and she can be contacted at angelapotter@wustl.edu. I hope you will find her to be as great a resource as I do.

Email is the primary means by which the DIC corresponds with its members. Thus, members are encouraged to maintain current e-mail addresses in their ACS profiles. These profiles are used to generate the regularly updated email lists that the Secretary receives from the ACS. Members may view and edit their ACS profiles by logging in at www.chemistry.org. Current division and subdivision memberships may also be confirmed in the member's profile at this site. The DIC email list is confidential, and is used only to convey DIC news, announce DIC elections, and to inform members of upcoming meetings, and award and funding opportunities. This email list will never be provided to third parties, such as commercial advertisers.

DIC members may belong to one or more DIC subdivisions (at no additional cost). **One must be a subdivision member to vote in subdivision elections.** Subdivision membership can be changed or specified by calling the ACS at 800-333-9511, or by emailing the ACS at service@acs.org, with a request that the appropriate subdivision code(s) be added to one's membership record. All such requests must be accompanied by a member's membership number. The codes for the subdivisions are:

Bioinorganic	I17
Organometallic	H17
Solid State and Materials	G17
Nanoscience	J17

Finally, the blue books of meeting abstracts are no longer mailed. Instead, DIC members may obtain meeting abstracts by logging in at www.chemistry.org, and following the "Inorganic Chemistry" and then "Abstract Separates" links near the middle of the corresponding webpages.

6. MESSAGE FROM THE TREASURER – Bryan Eichhorn

The Division was fiscally active during the past calendar year. We supported several symposia at local and national ACS meetings and provided financial support to the international coordination chemistry conference (ICCC) in Mexico. Due to the increase in allocations from the ACS, the Division remains in very sound fiscal health with \$166,211 in cash reserves at the end of 2004.

7. NEWS FROM THE BIOINORGANIC SUBDIVISION – Janet Morrow

This will be a busy summer with many opportunities for members of the subdivision to participate in conferences. One of the most comprehensive meetings is the 12th International Conference on Bioinorganic Chemistry (ICBIC) to be held July 31 to August 4, 2005 in Ann Arbor, Michigan (<http://www.umich.edu/~icbic>). There are three ICBIC satellite meetings of interest: Metalloprotein and protein design (July 28-30, <http://www.uiowa.edu/~confinst/metalloprotein/>), Technologies for structural analysis of membrane metalloproteins (July 29-30) and Inorganic physiology: imaging metals in cells (July 29-31). There are several Gordon research conferences of a more specialized nature (<http://www.grc.uri.edu>) including: Inorganic chemistry (July 17-22), Matrix Metalloproteins (August 28-September 2), Molybdenum and Tungsten Enzymes (July 10-15), Vitamin B12 and corphins (September 18-23). There is a new GRC on the cell biology of metals (July 3-8). A complete list of meetings of interest to bioinorganic chemists is found at: <http://www.ebi.ac.uk/~kirill/biometal/bicmeetings.html>.

8. NEWS FROM THE ORGANOMETALLIC SUBDIVISION – Klaus Theopold

The summer and fall of 2005 will see several meeting of interest to the organometallic chemistry community. In chronological order, these include: the Gordon Research Conference on Organometallic Chemistry (<http://www.grc.org/programs/2005/orgmet.htm>, Paul Fagan, July 10-15, 2005, Salve Regina University), the 13th IUPAC Symposium on Organometallic Chemistry Directed Towards Organic Synthesis (OMCOS 13) (<http://omcos13.unige.ch/>, July 17-21, 2005, Geneva Switzerland), the XVI. FECEM Conference on Organometallic Chemistry (<http://comc16.elte.hu/>, September 3-8, 2005, Budapest, Hungary). During the Washington ACS meeting (August 28 – September 1, 2005) the symposium “Beta-diketiminates: A Renaissance of Reaction Chemistries”, organized by Pat Holland and Dan Mindiola, will be of interest to organometallic chemists.

9. NEWS FROM THE SOLID STATE AND MATERIALS SUBDIVISION – Ed Gillan

I plan to build a subdivision web page and welcome suggestions on content. For example, I think it would be useful to assemble web links to undergraduate solid-state/materials chemistry experiments and teaching tools designed and tested by members of the subdivision. Members may contact me with ideas at edward-gillan@uiowa.edu.

Several conferences may be of interest to the solid-state community:

a) Summer Gordon Research Conferences (<http://www.grc.org/>)

Solid State Chemistry II (June 5 - 10, 2005, Il Ciocco, Barga, Italy)

Chemistry of Electronic Materials (July 17 - 22, 2005, New London, Conn.)

Thin Film & Crystal Growth Mechanisms (June 26 - July 1, 2005, South Hadley, Mass.)

Condensed Matter Physics (June 19 - 24, 2005, New London, Conn.)

b) **Midwest Solid-State Chemistry Conference** (May 26 - 28, 2005, University of Notre Dame)

Registration deadline is March 30, 2005

http://ssevov-g5.chem.nd.edu/MSSC_2005/MidwestChemistry2005.html

c) **24th Rare Earth Research Conference** (June 26 - 30, 2005, Keystone, Colorado)

Early registration deadline is March 1, 2005.

<http://www.colostate.edu/Depts/NatSci/html/rareearths3.html>

d) **Midwest Organic Solid State Chemistry Symposium** (June 2 - 4, 2005, Purdue University)

Contact Steve Byrn or Ken Morris at Purdue University (<mailto:sbyrn@pharmacy.purdue.edu>) for more info. Registration deadline is May 15, 2005.

10. MESSAGE FROM THE PROGRAM CHAIRS – Debbie Crans and Bernadette Donovan-Merkert

The deadline for online submission of abstracts for the Fall 2005 ACS National Meeting in Washington DC (August 28 - September 1, 2005) is Tuesday, April 12, 2005.

11. MESSAGE FROM THE MEMBERSHIP CHAIR – Michael Scott

Membership in the Division increased again last year, and we now have more than 4,800 persons affiliated with the Inorganic Division and the four subdivisions: Bioinorganic, Organometallic, Nanoscience, and Solid State and Materials. Since financial support from and influence at the ACS is often based on the size of the division, please consider encouraging your students and colleagues to join you in the DIC. The first year is free and the process is simple at the ACS website. Membership in the division offers many benefits including support for the development of symposia at ACS national meetings, inclusion in the DIC email list, as well as eligibility for awards and symposia such as the student travel award and the DIC Young Investigator Symposium. Membership also affords access to a downloadable PDF file of inorganic abstracts for the ACS National meetings, a substitute for the old blue books. Help strengthen the field of Inorganic Chemistry within the ACS!

12. EXXONMOBIL SOLID STATE CHEMISTRY FACULTY FELLOWSHIP

The ExxonMobil Foundation is sponsoring the ExxonMobil Solid State Chemistry Faculty Fellowship, which includes an award in the form of an unrestricted grant of \$10,000. Selection of the recipient is administered by the Solid State and Materials Chemistry Subdivision of the ACS Division of Inorganic Chemistry. The fellowship will be formally presented at the National ACS Meeting in Washington, D.C., August 28 - September 1, 2005.

The Solid State Chemistry Faculty Fellowship recognizes young scientists who have made substantial contributions to the discipline of solid-state chemistry and have the potential to emerge as leaders in the field. The Fellowship also recognizes solid-state chemistry as a critical science and engineering discipline that is a vital component of the research enterprise in the United States. The recipient of the fellowship must hold a tenure-track faculty position at a U.S. institution, must not yet have received tenure, and, preferably, is not currently in the final stage of tenure review. Selection will be based on past and current independent contributions and on the potential for future contributions to our knowledge of synthesis, properties, reactivity, structure, and bonding in solids. Nominations must contain three copies of the following: a one-page summary of current research interests; a publication list; copies of not more than three recent publications; a brief vitae; and three supporting letters (including that of the nominator). **The deadline for nominations is March 10, 2005.** Applicants will be notified of the decision by April 15, 2005.

All nomination materials and inquiries should be addressed to: Edward G. Gillan, Department of Chemistry, University of Iowa, Iowa City, Iowa, 52242-1294; e-mail: edward-gillan@uiowa.edu; phone: (319) 335-1308; fax: (319) 335-1270.

13. YOUNG INVESTIGATOR SYMPOSIUM – APPLICATION DEADLINE EXTENDED

The Division of Inorganic Chemistry has established a new symposium that will feature young inorganic chemists. This event is meant to honor some of our talented young investigators, and provide a high-profile forum for these members to describe their research results. The first symposium will be held on Sunday afternoon of the Fall 2005 ACS meeting in Washington, D.C. There will be a total of 8 speakers (two from each DIC subdivision) and each will give a 30-minute presentation. The DIC will provide a \$500 honorarium for each speaker and a plaque to commemorate their participation in the event.

Only DIC members are eligible. Candidates must be enrolled as a graduate student or hold a position as a postdoctoral fellow (academia, industry or government lab) at the time of the nomination. Visiting scholars and similar titles are not eligible. The speakers will be selected from nominations submitted by **March 21, 2005**.

Nominations may be submitted by a research advisor of the candidate, but self-nominations are not allowed. The nomination letters should be limited to two pages (single-spaced, 12-pt font) and should be submitted electronically to the Chair of the appropriate subdivision (see below). Each nomination should:

- describe the research accomplishments of the candidate and his/her potential for an independent research career
- provide information about the research topic to be presented and why this would be of broad interest.

In addition to the nomination letter, a short (no more than 1 page) bio on the candidate, plus a list of publications, should be included. Additional communications with the selection committees are strongly discouraged, and may result in disqualification of the candidate. The selection committee for each subdivision will be made up of the past chair, the current chair, and the chair-elect of the subdivision. Send your nomination electronically to one of the following chairs:

Janet Morrow, Bioinorganic Subdivision, email: jmorrow@buffalo.edu

Ed Gillan, Solid State and Materials Chemistry Subdivision, email: edward-gillan@uiowa.edu

Klaus Theopold, Organometallic Subdivision, email: theopold@udel.edu

Jim Hutchison, Nanoscience Subdivision, email: hutch@oregon.uoregon.edu

N.B. Please request e-confirmation that the appropriate subdivision chair has received your nomination.

14. CONGRATULATIONS TO ACS AWARD WINNERS

The Division of Inorganic Chemistry is pleased to acknowledge the following inorganic chemists who will be receiving ACS Awards at the National Meeting in San Diego:

William J. Evans 2005 ACS Award in Inorganic Chemistry

Jack R. Norton 2005 ACS Award in Organometallic Chemistry

Philip P. Power 2005 F. Albert Cotton Award in Synthetic Inorganic Chemistry

Thomas G. Spiro 2005 ACS Award for Distinguished Service in the Advancement of Inorganic Chemistry

The awardees will give plenary presentations and be honored by award symposia sponsored by the Division of Inorganic Chemistry at the National Meeting in San Diego.

15. DIC TRAVEL AWARD WINNERS FOR THE SAN DIEGO MEETING, SPRING 2005

<i>Stephanie Hackney</i>	UNC-Charlotte	(advisor: B. Donovan-Merkert)
<i>Brian Leonard</i>	Texas A&M U.	(advisor: R. Schaak)
<i>Avery Luedtke</i>	U. Washington	(advisor: K. Goldberg)
<i>L. Summer Maffett</i>	UNC-Charlotte	(advisor: D. Rabinovich)
<i>Charles Mebi</i>	U. Nevada-Reno	(advisor: B. Frost)
<i>Daniel Ruddy</i>	UC-Berkeley	(advisor: T. D. Tilley)
<i>Zachary Sales</i>	U. Notre Dame	(advisor: K. Henderson)
<i>Jason Sonnenberg</i>	Ohio State U.	(advisor: B. Bursten)
<i>Matthew Thorum</i>	U. Utah	(advisor: J. Miller)
<i>Rex Watkins</i>	Utah State U.	(advisor: L. Berreau)

16. MESSAGE FROM JOHN FACKLER

The Inorganic Division is pleased to acknowledge the generous contribution of Springer (formerly Kluwer/Plenum and Springer-Verlag) in support of the Symposium, **Coordination Chemistry: Designed Ligands and Binding Constants**, held in honor of the memory of Arthur E. Martell, long an active member of the Division and a former author for Kluwer/Plenum. Kluwer/Plenum also published the 2002 autobiography by Fred Basolo, "**From Coello to Inorganic Chemistry.**" An autobiographical volume by F. Albert Cotton is expected to go to press very soon.

17. MEETINGS AND SYMPOSIA

ACS SYMPOSIA

Spring 2005 – San Diego, CA

- (1) *Environmental Applications of Inorganic Chemistry* [Istvan T. Horvath and Debbie C. Crans].
- (2) *Frontiers in Inorganic Spectroscopy and Photochemistry* [Harry B. Gray, Michael D. Hopkins, and Richard F. Dallinger].
- (3) *The Metal-Cyanide Renaissance, On the Tricentennial of the Synthesis of Prussian Blue* [Jeffrey R. Long, Stephen A. Koch, and Kim R. Dunbar].
- (4) *ACS Award in Inorganic Chemistry: William J. Evans* [Timothy J. Boyle and Timothy P. Hanusa].
- (5) *F. Albert Cotton Award in Synthetic Inorganic Chemistry: Philip P. Power* [Rasika Dias].
- (6) *ACS Award for Distinguished Service in the Advancement of Inorganic Chemistry: Thomas Spiro* [William H. Woodruff].
- (7) *ACS Award in Organometallic Chemistry: Jack Norton* [R. Morris Bullock].

Fall 2005 – Washington, DC

- (1) *Inorganic Complexes as Potential Chemotherapy Agents* [Claudia Turro (turro@chemistry.ohio-state.edu)].
- (2) *Beta-diketiminates: A Renaissance of Reaction Chemistries* [Dan Mindiola (mindiola@indiana.edu) and Pat Holland (holland@chem.rochester.edu)].
- (3) *Strategies and Molecular Mechanisms of Contaminant Degradation Chemistry* [Ken Karlin (karlin@jhu.edu)].
- (4) *Young Investigator Symposium* [Cliff Kubiak (kubiak@chem.ucsd.edu) and Al Sattelberger (sattelberger@lanl.gov)].
- (5) *ExxonMobil Solid State Chemistry Faculty Fellow Award Symposium* [Ed Gillan (edward-gillan@uiowa.edu)].

Other Future Meetings of Interest to Inorganic Chemists

Inorganic Chemistry Gordon Research Conference

July 17-22, 2005

Salve Regina University

Newport, RI

Chair: George G. Stanley

Conference Website: <http://www.grc.org/programs/2005/inorchem.htm>

Organometallic Chemistry Gordon Research Conference

July 10-15, 2005

Salve Regina University

Newport, RI

Chair: Paul J. Fagan

Conference Website: <http://www.grc.org/programs/2005/orgmet.htm>

Solid State Chemistry II Gordon Research Conference

June 5-10, 2005

Il Ciocco

Barga, Italy

Chair: J. Paul Attfield

Conference Website: <http://www.grc.org/programs/2005/sschem2.htm>

ACS-PRF Summer School on Molecular Photoelectron Spectroscopy for Chemical Research and Education

June 12-16, 2005

The University of Arizona, Tucson

www.pes.arizona.edu

National Science Foundation – Inorganic Chemistry Workshop

June 7-June 10, 2005

Lansdowne Resort, Lansdowne, Virginia

The organizing committee for the 2005 NSF-sponsored Inorganic Chemistry Workshop invites applications from interested individuals for attendance. This workshop will cover all areas of inorganic chemistry including organometallic, bioinorganic, main group, catalysis, materials, and coordination chemistry. The Workshop will be limited to ~27 participants (academic, industrial, and government

labs) and will focus on the newest, non-published results from the participants' research programs. Talks will be short with extensive discussion time. Academic participants must be tenured or tenure-track. A two-page application **in PDF format** should include: your name, rank, business address, phone number, fax number, E-mail, title and **detailed** abstract of the research you wish to discuss at the workshop on one page, as well as a cover letter indicating whether you have applied to or attended this conference in the past 5 years. If you are an assistant professor please also include your starting date.

*Applications should be sent to **both PIs** and are due by March 25, 2005, preferably via email, although regular mail applications will be accepted.*

Professor Rick Kemp, Department of Chemistry, University of New Mexico, MSC 03 2060, Albuquerque, NM 87131, Phone (505) 272-7609, Fax (505) 272-7336, E-mail rakemp@sandia.gov or rakemp@unm.edu.

Dr. Tom Baker, Los Alamos National Laboratory, Chemistry Division, MS J582, Los Alamos, NM 87545 Phone (505) 667-9274, Fax (505) 667-3314, E-mail bakertom@lanl.gov.

13th IUPAC Symposium on Organometallic Chemistry Directed Towards Organic Synthesis (OMCOS 13)

July 17-21, 2005

Geneva, Switzerland

<http://omcos13.unige.ch/pdf-files/OMCOS13-2ndCirc.pdf>

The 24th Rare Earth Research Conference

June 26-30, 2005

Keystone, Colorado

<http://www.colostate.edu/Depts/NatSci/html/rareearths.html>

9th International Symposium on Metallomesogens

May 31 – June 3, 2005

Lake Arrowhead UCLA Conference Center

<http://www.sewanee.edu/rbachman/ism05.htm>

18. SYMPOSIUM TOPICS

I would like to suggest the following symposium topic(s) (and organizers) for Symposia in the Division of Inorganic Chemistry for ACS National Meetings in the year 2007.

Topic:

Organizer (please print):

Phone:

E-mail:

Fall or Spring Meeting 2007:

Email your suggestions to Tom Rauchfuss at rauchfuz@uiuc.edu.

19. 2005 ACS DIVISION OF INORGANIC CHEMISTRY OFFICERS

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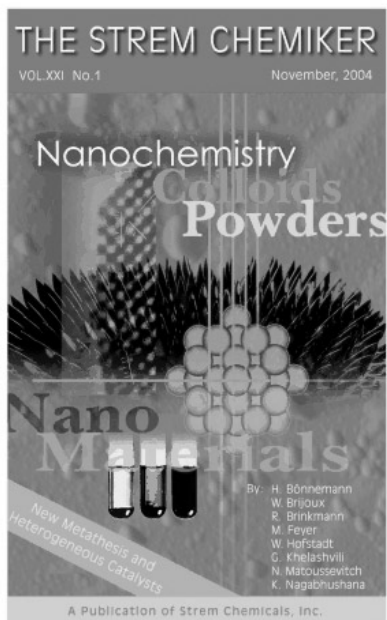
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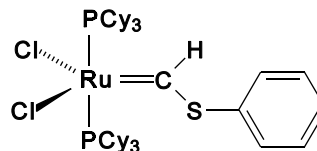
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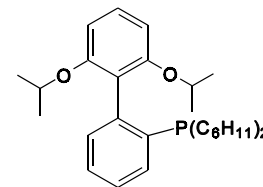
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Metathesis



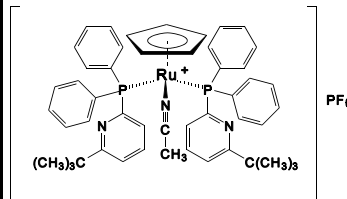
44-0073

Negishi Cross-coupling



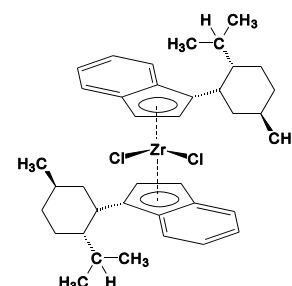
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Anti-Markovnikov hydration



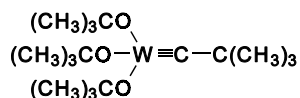
44-0015

Enantioselective Carboalumination



40-1057

Metathesis



74-1800

Carbon Nanotubes
(diameter = ~35nm,
length = ~30 microns)
(>90% nanotubes)

06-0475

Metals
Scavenging
Agents
(Kit and individual
components)

96-6700 Kit

Nanomaterials

- Metal Nanoclusters
- Metal Nanocolloids
- Metal Nanoparticles
- Metal Nanopowders
- Magnetic Fluids

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