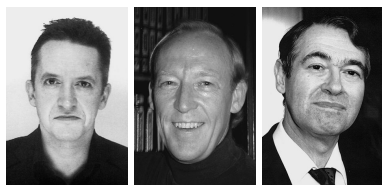


### In this issue...

#### Volume Editors Visit the Editorial Office



#### Thieme–IUPAC Prize Winner is Announced

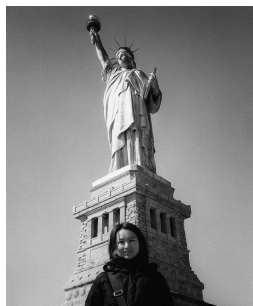


#### Electronic Product, New Release

#### CrossRef – Our New Cooperation Partner



#### The Thieme Exchange Program



#### New Editorial Team Member



### Welcome from the Managing Editor

#### Dear Reader,

It is with great pleasure that I welcome you to the latest edition of *Science of Synthesis News*.

The first few months of 2004 have been incredibly busy and productive for the Thieme Chemistry team and for the *Science of Synthesis* project in general.

The editorial office completed another volume in the series in May, Volume 27 (Heteroatom Analogues of Aldehydes and Ketones), bringing the total number of printed volumes now available in the series to 14. The team is still on schedule to complete the entire series by 2008.

The editorial, marketing, sales, and software development teams worked closely together to produce a new release of the electronic version (*Science of Synthesis*, Version 2.0, May 2004), which now includes 13 of the already published volumes. This means that the electronic product currently contains over 70 000 reactions and 12 000 printed pages!

The new release allows: 1; browsing: via an interactive table of contents, volume information pages, and the book mode option; 2; searching: using a variety of text and/or structure searching options, either across the whole work or within a specific volume, and 3; linking: through internal cross-referencing within a contribution or volume, via the FIZ AutoDoc document delivery service, and now via CrossRef.

Dr. Thomas Krimmer, Marketing Manager, will give you a detailed report on the new version of the electronic product later in the newsletter. Many of the changes incorporated in the new version were a result of customer and user group feedback, which we value greatly. Thomas will also outline what our key marketing activities have been over the last few months in his Marketing News report, which includes a list of the key conferences that will be attended by the Thieme Chemistry team later this year.

In addition we have an Editorial Update from Dr. Karen Muirhead, Senior Scientific Editor, giving you a detailed report on all of our editorial office activities and results.

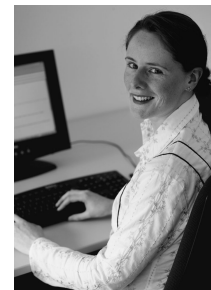
Leigh Murray, Production Coordinator, had the chance to visit our New York office in March as part of the Thieme Exchange Program and describes the projects she was involved with in this issue. I would like to thank Albrecht Hauff, Wolfgang Knüppe, Günter Rehnert, and Brian Scanlan most sincerely for their approval of this particular scheme.

Congratulations go to Professor John F. Hartwig who is the recipient of the 2004 Thieme–IUPAC prize. This prize will be presented at the ICOS meeting in Nagoya, Japan later this year.

Last but not least a warm welcome to all of the new authors who joined the project over the last few months. We are looking forward to collaborating with you during the course of the project.

*Science of Synthesis News* has proven to be very popular among members of the scientific community and has a wide readership. Please do not hesitate to contact Dr. Christabel Carter ([christabel.carter@thieme.de](mailto:christabel.carter@thieme.de)) if you have any queries, suggestions, feedback or would like to write an article for *Science of Synthesis News*.

M. Fiona Shortt  
de Hernandez  
Managing Editor  
*Science of Synthesis*



Visit us on the Internet: [www.science-of-synthesis.com](http://www.science-of-synthesis.com)

Do you have information about yourself or a *Science of Synthesis* colleague for the next newsletter?  
Write to us at [science-of-synthesis@thieme.de](mailto:science-of-synthesis@thieme.de) or [christabel.carter@thieme.de](mailto:christabel.carter@thieme.de)

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## Editorial Update

Karen Muirhead, Senior Scientific Editor

karen.muirhead@thieme.de



### Volume 27 Published!

Volume 27: Heteroatom Analogues of Aldehydes and Ketones (Padwa) was published on 26th May 2004. This is the first of the Category 4 (Compounds with Two Carbon—Heteroatom Bonds) volumes to be published. Congratulations go to Professor Albert Padwa, Professor Daniel Bellus, and all of the authors who contributed to Volume 27 on completing the project.

### Publication Schedule *Science of Synthesis*

The next volumes to be published in the *Science of Synthesis* series will be Volume 7 [Compounds of Groups 13 and 2 (Al, Ga, In, Tl, Be...Ba)] and Volume 19 (Three Carbon—Heteroatom Bonds: Nitriles, Isocyanides, and Derivatives), which are both due to be published in the summer. Volume 19 will be the first volume published in Category 3.

### Electronic Product Release

There was an important new release of *e-Science of Synthesis* on the 26th May 2004. This release includes Volume 3 and the three heteroarene volumes (Volumes 13, 16, and 17) published in December 2003 (4839 printed pages in total). A total of 26 000 new reactions have been included! In addition this release includes a fully integrated version of the *Houben–Weyl* electronic backfile, improved search functionality, better results display, fully interactive online help, and reference linking through CrossRef.

### CrossRef – Our New Cooperation Partner



We are pleased to announce that *e-Science of Synthesis* now incorporates the CrossRef service. This collaborative cross-publisher reference linking service turns citations into hyperlinks, allowing researchers to navigate online literature at the article level.

### Thieme–IUPAC Prize Winner Announced

We are pleased to announce that Professor John F. Hartwig is the recipient of the 2004 Thieme–IUPAC prize. The prize will be presented to John F. Hartwig at the IUPAC International Conference on Organic Chemistry (ICOS) in Nagoya, Japan, at the award lecture on 3rd August 2004.

### Visits to the Editorial Office

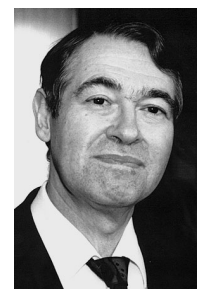


Professor Jonathan Percy



Professor Gary Molander

Professor Jonathan Percy (volume editor: Volume 34), Professor Gary Molander (volume editor: Volume 33), and Professor Johann Mulzer (volume editor: Volume 32) visited the editorial office in February, April, and May, respectively. During these visits we had the opportunity to discuss the volumes in detail and plan for the timely submission of tables of contents, sample pages, and draft manuscripts from the authors. We look forward to our future collaborations with Jonathan Percy, Gary Molander, and Johann Mulzer.



Professor Johann Mulzer



Cynthia Cleto – Sales Associate, New York

Cynthia Cleto (Sales Associate, Electronic Products) visited us from the New York office in order to learn more about the structure of *Science of Synthesis* and gain more experience in using the electronic product.

### Thieme Exchange Program

Leigh Murray (Production Coordinator) had the opportunity to take part in the Thieme Exchange Program and spent four weeks in the New York office. The purpose of the exchange was to provide a member of the *Science of Synthesis* editorial office with the chance to gain a full understanding of the editorial and production operations in Thieme New York, and to encourage the exchange of information between the Stutt-

gart and New York offices. Leigh provides a more detailed account of her visit to New York later in the Newsletter.

### New Operations Assistant

We are pleased to announce that Fatma Sever has joined the *Science of Synthesis* team as Operations Assistant. Fatma, who joined the team in February, works closely together with Angela Gilden (Editorial Secretary) and is responsible



Fatma Sever – New Operations Assistant

for some of the general administration tasks within the editorial office.

### AdWords Campaign

A new search-engine marketing campaign began in March 2004 for the *Science of Synthesis* project. The campaign has proven very successful and to-date has resulted in over 460 000 impressions and almost 2000 visits to the *Science of Synthesis* Web site.

## The Thieme Exchange Program

Leigh Murray, Production Coordinator

[leigh.murray@thieme.de](mailto:leigh.murray@thieme.de)



The Thieme Exchange Program was established in 2003 to encourage the exchange of information between the Thieme offices in Stuttgart and New York and to strengthen international relations between the two business units.

I was fortunate enough to be able to take part in the Exchange Program in March 2004 and found it to be a truly enjoyable experience. I learnt a lot from my Thieme New York (TNY) production colleagues, specifically, Anne Vinnicombe (Director of Production and Manufacturing), David Stewart (Senior Production Editor), Rebecca Dille (Production Editor), and Erik Wenskus (Production Editor), about the editorial and production systems employed at TNY for bringing their program of journals and books through to publication.

During my first two weeks, I had the opportunity to work with eXtypes, a pre-edit software program for cleaning

up and styling journal articles, which has managed to reduce copyediting time by 20%. I also spent some time learning about sizing 4-colour artwork and halftones, which are predominantly used in TNY products.

Since it was an exchange program, I was able to inform my production colleagues about the workflow procedures used for producing the print and electronic versions of *Science of Synthesis*, as well as provide them with background and statistical information on the product during an hour-long seminar.

The second area of work I was involved with at TNY was with the upcoming Electronic Flexibook Library (online release in May 2004), managed by the Project Manager, Anne-Kathrin Hayek, which is planned to consist of a selection of the popular Thieme Color Atlases all in interactive format. Using Adobe Acrobat plug-ins, I learnt how to trans-

form two books (Rohkamm/Color Atlas on Neurology and Rüedi/AO Principles of Fracture Management) from their raw pdf data into interactive HTML data for the online product.

My four weeks at Thieme New York were a memorable experience and I'm very grateful to my TNY colleagues for making my stay very welcome and for taking the time out to show me the work that they do, and share with me their ideas for ways to improve production systems.

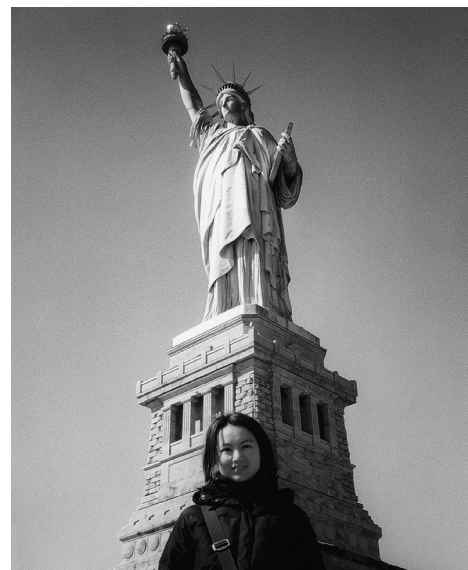
Needless to say, New York City itself had more than enough attractions to keep me busy outside office hours. I naturally took the opportunity to visit some of the best museums in the world, to see musicals on Broadway, to visit the New York City Opera, and much, much, more. New York is a fantastic city and I'm already looking forward to my next visit there!



Erik Wenskus, Production Editor and Anne Vinnicombe, Director of Production and Manufacturing



Anne Hayek, Project Manager for the Electronic Flexibook Library



Leigh Murray on Liberty Island



It is with great pleasure that we announce the release of *e-Science of Synthesis* Version 2.0. This new version of the electronic incarnation of *Science of Synthesis* has been available since 26th May 2004 and marks a major milestone in the (short) history of *Science of Synthesis* for the following three reasons:

First, the number of volumes added to an update has never been as high, this release includes four new volumes, Volume 3, Volume 13, Volume 16, and Volume 17, adding another 5000 pages and 26000 reactions. The electronic version now totals 13500 pages and around 70000 reactions. Furthermore, all but one of the category 2 (Heterenes) volumes are now included and in category 1 (Organometallics), only three out of 8 volumes have still to be added. For subscribers and users of the electronic version, this translates to close to full coverage of heterocyclic chemistry, which greatly boosts the value of *Science of Synthesis* for chemists in academia and more profoundly, of course, for those in industry. The missing volumes that complete the first two categories are all scheduled for publication in 2004, thus the electronic version will cover the whole of heterocyclic and organometallic chemistry in less than a year's time!

New and existing data has been re-processed to feature CrossRef linking for the references, allowing direct access to journals cooperating with CrossRef by a simple click, provided that your institution has a license.

Second, the interface has been advanced and improved to make finding the relevant information as straightforward as possible. The most eye-catching changes are the new quick search field on the left-hand side and the navigation

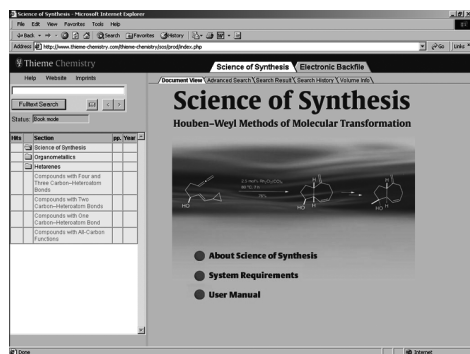


Figure 1 The New *e-Science of Synthesis* Interface with Fulltext Search Facility and Navigation Tabs

tabs in the header on the right-hand side (Figure 1).

The quick search field allows the user to perform fast and efficient full text searches for a string of words without the need to use the sophisticated Advanced Search interface.

The navigation tabs, like those found in the option dialogue on your browser, provide access to several functional layers ("views") within *Science of Synthesis*. At first glance, this setting seems overwhelmingly complicated, but in fact, navigation tabs are the most advanced way of sorting, as the user can switch between the layers at their discretion, without losing the currently displayed information. The pages in use are always just a click away! Our beta-testers found that they got used to the intelligent organization system quickly. I will give a brief description of the various layers (which I call "views" from here on) in the following.

The **Document View** (Figure 2) is the default view and represents the view you are familiar with; the document, selected either from the interactive table of contents or as a hit document from the hit list, is displayed. The search for "triazine" brought up a contribution by H. Döpp. I could also have searched for "H. Döpp" to bring up this document (and 134 further documents), as a new feature is that you can now search directly for a contributor.

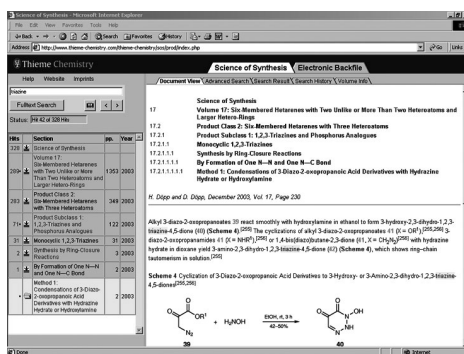


Figure 2 The Document View

**Advanced Search** (Figure 3): A click on this tab sends the document view to the back and brings up the Advanced Search Interface, which has seen a complete overhaul and is now much more intuitive, self-explanatory, and functional. Structure searching using

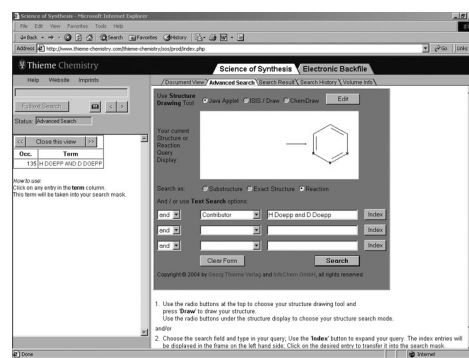


Figure 3 Advanced Search: Using the Reaction Search Facility

one out of three structure editing tools and an extensive combination of text searches can be carried out both together and independently. The main new technical features are the aforementioned option to search for contributors and that the structure editing tools available on the user's machine are detected automatically. When performing a structure search, the user can now choose between substructure and exact structure after they have drawn their query. The reaction search mode is activated automatically, if an arrow has been drawn in the query.

**Search Results** (Figure 4): The Search Result view is activated, once a search has been performed. In this view, the user first gets an overview of where in *Science of Synthesis* their hit documents are located. Volume 17 contains 58 methods for the synthesis of triazines, while in volume 9 there is one method that yields a triazine (as a side product in the thermolytic synthesis of an azete). If hits are more widely distributed over *Science of Synthesis*, for example in a text search for "triazine" instead of the reac-

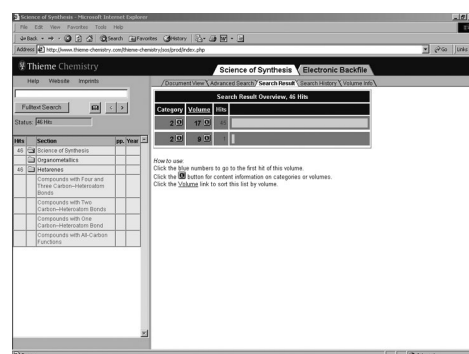


Figure 4 Search Results: Number of Hits Distribution Among the Volumes

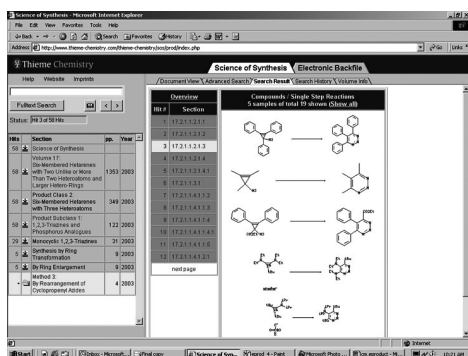


Figure 5 Search Results: Graphical Presentation of a Single-Step Reaction Search

tion search performed here, the green bars help to evaluate quickly, which subset of hits to look at first. The user can access their hit list from whichever volume they wish, allowing them to assess the relevance of the hits. Next to the hits, the single step reactions included in the hit document are presented graphically in case a structure search has been performed, making it possible to decide if a certain document meets the requirements before it actually has been accessed (Figure 5). In addition, the full title and the hierarchical context of each hit are given in the interactive table of contents on the left-hand side.

The **Search History** tab allows the user to reload any query of that current session to the Advanced Search Interface, where it can be modified and re-executed.

The **Volume Info** tab finally gives access to a quick overview of the content of the 6 categories and each of the 48 volumes of *Science of Synthesis*. A click on the small info buttons in the Search Result view also brings these pages to the front. They are intended to serve as a guide for those users who are not that familiar with the concept of the *Science of Synthesis* series.

By using the navigation tabs, search queries, search results, and hit lists are always accessible while browsing through the documents of *Science of Synthesis*, and following the links. The views are independent from each other, allow-

ing the user to switch freely between them, to browse at will, and to continue exactly where they left off when returning.

The third reason making this release exceptional is that *Science of Synthesis* is now seamlessly linked to the electronic version of *Houben–Weyl*. A complete rewriting of the software made it possible to integrate the two hitherto separate products into one interface and all documents in *Science of Synthesis* have been manually checked for their cross reference in *Houben–Weyl* documents. If a match was found and that information in *Houben–Weyl* added value to the information in *Science of Synthesis*, a link to the respective *Houben–Weyl* document(s) was included in the *Science of Synthesis* document (Figure 6).

Following one of these links guides

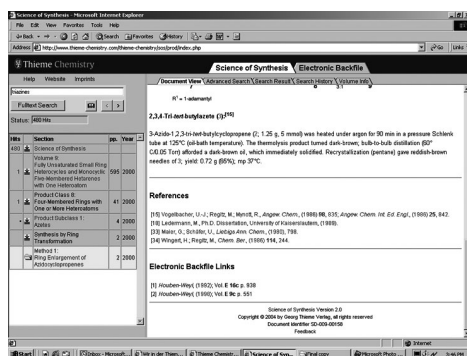


Figure 6 Shows an Example of a Link to *Houben–Weyl*

you directly to the relevant document in *Houben–Weyl*. This supplements the information given in *Science of Synthesis* with research carried out in the last century, covering synthetic knowledge stretching back to the late 1800s. Within *Houben–Weyl*, sophisticated text searching functionalities allow the user to examine the content using a variety of logical arguments. With the help of the completely revamped structural templates, presenting families of molecules and functional groups in graphical form,

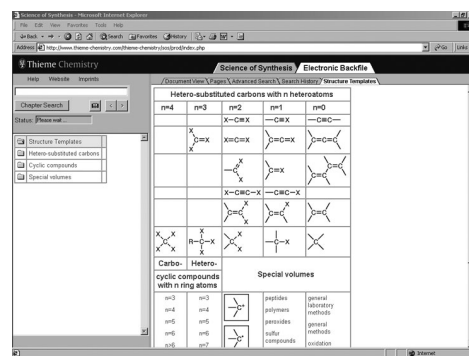


Figure 7 e-*Houben–Weyl* Structure Search Templates

even structure-based information retrieval is possible (Figure 7). Simply clicking on the structures takes the researcher directly to the relevant articles and allows them to screen the content rapidly and in a manner that is both intuitive and familiar. Due to the newly implemented tabulator logic, the user can browse *Houben–Weyl* at their convenience and then return to the point where they left *Science of Synthesis* by clicking on the header.

We believe that this combination of the modern approach of *Science of Synthesis* with the breadth and depth of a century of scientific endeavor of *Houben–Weyl* (146 000 experimental procedures and 700 000 references), gives the user the most valuable resource on synthetic organic methodology available. We therefore strongly recommend you have a look at the new integrated version of *Science of Synthesis*. If your institution has not yet licensed *Science of Synthesis* (*Houben–Weyl* is included in the package), please contact your librarian to arrange a trial with our sales departments in either New York or Stuttgart (contact details on the web: [www.science-of-synthesis.com](http://www.science-of-synthesis.com)).

## Welcome to New Authors

The *Science of Synthesis* team would like to extend a warm welcome to the following new authors:

### Volume 8

Dr. J. W. Zwikker (University of Utrecht, The Netherlands)

### Volume 18

Professor R. G. S. Berlink (Universidade de Sao Paulo, San Carlos, Brazil)

Dr. C. Diaper (University of Alberta, Edmonton, Canada)

### Volume 20

Dr. E. Kataisto (Albany Molecular Research, Inc., NY, USA)

Professor A. Duda (Polish Academy of Sciences, Lodz, Poland)

Professor G. Evano (Université de Versailles, France)

### Volume 21

Mr. A. Miller (Yale University, New Haven, CT, USA)

### Volume 25

Dr. C. Alayrac (Westfälische Wilhelms-Universität Münster, Germany)

Professor B. Breit (Albert-Ludwigs-Universität Freiburg, Germany)

Dr. K. Ditrach (BASF AG, Ludwigshafen, Germany)

Dr. M. Eckhardt (Boehringer Ingelheim Pharma KG, Biberach an der Riss, Germany)

Professor A. Gansäuer (Rheinische Friedrich-Wilhelms-Universität Bonn, Germany)

Dr. F. Glorius (Max-Planck-Institute für Kohlenforschung, Mülheim an der Ruhr, Germany)

Dr. R. Göttlich (Westfälische Wilhelms-Universität Münster, Germany)

Dr. C. Harcken (Boehringer Ingelheim Pharmaceuticals, Ridgefield, CT, USA)

Professor M. Harmata (University of Missouri-Columbia, Missouri, USA)

Professor A. S. K. Hashmi (Universität Stuttgart, Germany)

Professor M. Kalesse (Universität Hannover, Germany)

Dr. A. Lindschmidt (Aventis Pharma Deutschland, Frankfurt am Main, Germany)

Professor T. J. J. Müller (Ruprecht-Karls-Universität Heidelberg, Germany)

Dr. K. Muniz (Rheinische Friedrich-Wilhelms-Universität Bonn, Germany)

Dr. M. Oestreich (Albert-Ludwigs-Universität Freiburg, Germany)

Dr. B. Plietker (Universität Dortmund, Germany)

Professor J. Podlech (Universität Karlsruhe, Germany)

Professor O. Reiser (Universität Regensburg, Germany)

### Volume 28

Dr. R. Chadran (Regional Research Laboratory, Trivandrum, India)

Professor E. A. Couladourous (Agricultural University of Athens, Greece)

Professor Y. Nuruta (Kyushu University, Fukuoka, Japan)

### Volume 30

Professor L. A. Barnhurst (Southern Adventist University, Collegedale, TN, USA)

Professor H. Firouzabadi (Shiraz University, Iran)

Professor N. Iranpoor (Shiraz University, Iran)

Professor C. Kibayashi (Tokyo University of Pharmacy and Life Sciences, Japan)

Professor A. G. Kutateladze (University of Denver, CO, USA)

Professor M. K. Leung (National Taiwan University, Taipei, Taiwan)

Professor T.-Y. Luh (National Taiwan University, Taipei, Taiwan)

Professor T. Murai (Gifu University, Japan)

Professor K. Ogura (Chiba University, Japan)

Professor T. Takeda (Tokyo University of Agriculture and Technology, Japan)

Professor A. Tsubouchi (Tokyo University of Agriculture and Technology, Japan)

Professor H. Yamada (Okayama University of Science, Japan)

Professor N. Yamazaki (Tokyo University of Pharmacy and Life Science, Japan)

Professor M. Yamashita (Shizuoka University, Hamamatsu, Japan)

Professor M. Yoshimatsu (Gifu University, Japan)

### Volume 33

Professor J. C. Carretero (Universidad Autónoma de Madrid, Spain)

Professor D. Dittmer (Syracuse University, NY, USA)

Professor J. Drabowicz (Polish Academy of Sciences, Lodz, Poland)

Professor A.-C. Gaumont (UMR CNRS 6507 ENSICAEN, Caen, France)

Professor G. Keglevich (Technical University of Budapest, Hungary)

Professor N. Ono (Ehime University, Matsuyama, Japan)

Professor J.-C. Quirion (Institut de Recherche en Chimie Organique Fine, Mont-Saint-Aigen Cedex, France)

### Volume 34

Mr. J. Miles (University of Leicester, UK)

Professor J. M. Percy (University of Leicester, UK)

Mr. R. Roig (University of Leicester, UK)

## Personal News

Our congratulations go to **Professor Scott J. Miller** (Boston College), Author, Volume 20, on receiving the 2004 ACS Arthur C. Cope Scholar Award, which he received at the 227th ACS meeting in Anaheim.

Our best wishes go to **Professor Dieter Klamann**, Editorial Board Member, *Houben-Weyl E-Series*, on the occasion of his 80th birthday.

## The Sales and Marketing Team

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(Stuttgart, Germany)

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## Marketing News

Thomas Krimmer, Marketing Manager

[thomas.krimmer@thieme.de](mailto:thomas.krimmer@thieme.de)



This part of the newsletter has a tradition of giving you an overview of Thieme Chemistry's conference activities as soon as the conference season starts. In this issue, I will talk about our presence at the 7th International Bielefeld Conference (February), the Chemiedozententagung 2004 (March), the 227th ACS National Meeting (March), and the P&HT Division Spring 2004 Meeting (April). We have also had materials on display or in the bags at a further eight conferences all over the world, including the Fifth Annual Florida Heterocyclic Conference (Florida), the International Pharmaceutical Industry Congress (Scotland), the 20th Conference on Catalysis of Organic Reactions (Florida), and the 9th Organic Process Research and Development conference (Japan). You can view the full list of conferences we are attending by following the conferences link on our Web site: [www.thieme-chemistry.com](http://www.thieme-chemistry.com).

### 7th International Bielefeld Conference

The Bielefeld Conference is a biannual event organized by the director of the university library, Bielefeld. This year, Professor Dr. Timmermann welcomed 450 participants from 30 countries. In 19 talks the heads of information departments and libraries discussed the trends in digital information provision under the title: "Thinking Beyond Digital Libraries".

The Bielefeld conference is an important opportunity to network and get insight into our customers' and competitors' ideas and plans.

### Chemiedozententagung 2004

This year, Professors Krause and Eilbracht from Dortmund University welcomed some 460 participants from several countries. From the 130 talks, 30 were given, for the first time, by non-German speaking scientists. The Chemiedozententagung is an opportunity for us to meet both contributors and end-users. Due to its ideal location and the tradition Thieme has in exhibiting at the Chemiedozententagung, our booth was well frequented, we had several sales calls, as well as interesting discussions about editorial matters, and cooperation partnerships.

### 227th ACS National Meeting

The spring ACS conference was held in Anaheim, California, and attracted 14 141 participants and 1621, or thereabouts, exhibitors. This meeting was particularly interesting for organic chemists, as a highly

interesting afternoon was dedicated entirely to the chemistry of Professor E. J. Corey. ACS meetings are one of the most important opportunities for us to meet customers as well as authors, editors, end-users, and cooperation partners, especially from the Americas, but also from around the world.

### Pharmaceutical & Health Technology Division Spring 2004 Meeting

The P&HT spring meeting is an annual event organized through the P&HT division of the Special Libraries Association (SLA). This spring, the conference was held in the Sofitel, Philadelphia, and attracted 246 non-vendor participants, more than ever before. P&HT meetings are the most important events on the schedule for every librarian in the US chemical and pharmaceutical industry, as opposed to the general SLA meetings, which are directed towards all types of special librarians and resemble ACS meetings for librarians. Our first P&HT meeting turned out to be a worthwhile opportunity to meet (potential) customers from the Americas. The two representatives of our sales force in New York, Alexandra Williams and Cynthia Cleto, were constantly talking to, and approached by, librarians from big (and smaller) pharmaceutical and chemical companies (e.g., Amgen, GSK, Merck, Aventis, Chiron, Genentech, Sanofi, AstraZeneca, J&J, Organon, BMS, Eli Lilly, to name but a few). We are already in negotiations with many of these companies, but not necessarily with the participants present here – so the networking value was immense.

### Upcoming conferences

In the next few months, Thieme Chemistry will be present at the following conferences:

- Balticum Organicum Syntheticum, June 27–30th in Riga, Latvia
- 7th International Symposium on Carbanion Chemistry, July 7–11th in Alicante, Spain
- 10th Belgian Organic Synthesis Symposium, July 12–16th in Louvain-La-Neuve, Belgium
- 21st International Conference on Organometallic Chemistry, July 25–30th in Vancouver, Canada
- 15th International Conference on Organic Synthesis, August 1st–6th in Nagoya, Japan

Make sure you stop by our booth if you are attending one of these conferences. We are looking forward to meeting you there and presenting the new release of the electronic version of *Science of Synthesis*.

# 2004 Thieme–IUPAC Prize in Synthetic Organic Chemistry



## John F. Hartwig



John F. Hartwig

The Thieme–IUPAC Prize, consisting of € 5000, is awarded every two years on the occasion of the IUPAC International Conference on Organic Synthesis (ICOS) to a scientist under 40 years of age, whose research has had a major impact on the field of synthetic organic chemistry. We are pleased to announce that the seventh Thieme–IUPAC Prize will be presented to John F. Hartwig at the Award Lecture on August 3, 2004 at ICOS-15 in Nagoya, Japan.

John F. Hartwig was born in 1964 in Illinois, and raised in upstate New York. He obtained his BA in 1986 from Princeton University and then went on to complete his Ph.D. in 1990 under the collaborative direction of Robert Bergman and Richard Andersen at the University of California, Berkeley. Following a postdoctoral fellowship for the American Cancer Society with Stephen Lippard at the Massachusetts Institute of Technology, he joined the faculty at Yale University in 1992, where he is now Professor of Chemistry.

John F. Hartwig's independent research program is focused on the discovery, development, and understanding of new reactions catalyzed by transition metals. The scope of his research is extensive and he has created practical, catalytic synthetic methods that have a direct and relevant impact on synthetic chemists in many fields worldwide. Such goals have been achieved by obtaining insight from detailed mechanistic studies.

In the process of John F. Hartwig's independent research, he has been a co-developer of the palladium-catalyzed amination of aryl halides, the resulting aryl amines being ubiquitous among pharmaceutically relevant compounds. This chemistry is now used on a daily basis by medicinal and agrochemical chemists.

His expertise in palladium chemistry has been extended to the catalytic  $\alpha$ -arylation of carbonyl compounds. The develop-

ment of this chemistry has allowed synthetic chemists to expand the repertoire of traditional enolate/electrophile pairs to include aryl halides, which do not couple with enolates in the absence of a catalyst. These  $\alpha$ -arylations can be used to generate a number of biologically active compounds, including ibuprofen, naproxen, and tamoxifen.

In his efforts at alkane functionalization, John F. Hartwig has successfully addressed C–H activation, a subject of significant importance to mainstream organometallic chemists, with results that have immense potential. He has also investigated olefin hydroamination, a long-standing goal for transition-metal catalysis, discovering catalysts for the addition of amines to vinylarenes and dienes by novel combinatorial methods. More recently, John F. Hartwig has explored the iridium-promoted enantioselective allylic amination and etherification of terminal allylic carbonates. These latter reactions are still in their infancy, yet have a high impact potential for future regular use throughout various chemical industries.

These reactions only broadly categorize John F. Hartwig's achievements. He has been a tremendous source of inspiration, leading by example to produce talented and highly motivated students, and he is dedicated in making this remarkable chemistry widely available to the end user.

John F. Hartwig has received numerous accolades. These include the Leo Hendrick Baekeland Award 2003, the A. C. Cope Scholar Award in 1998, the Camille Dreyfus Teacher-Scholar Award in 1997, a Union Carbide Innovative Recognition Award in 1995 and 1996, the National Science Foundation Young Investigator Award in 1994, and both the DuPont and Dreyfus Foundation New Faculty Awards in 1992.

### Members of the Selection Committee

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