Science of Synthesis News

September 2002

In this issue…

Welcome from the Managing Director

Dear Reader,

It gives me great pleasure to welcome you to the September issue of the *Science of Synthesis* News, after the launch and celebration of the electronic version of *Science of Synthesis.*

As you may have already noticed we have been present at many conferences this summer. You can find out about our conference activities in the marketing section and also in the special feature on ICOS-14, when the Thieme–IUPAC prize was presented to Professor Erick M. Carreira. In addition the latest news from the Editorial Office is included in this issue and so that you can better understand our editorial and production processes this newsletter contains an article from Ziegler + Müller, one of our typesetters. However to begin with I will concentrate on a highlight of this year for *Science of Synthesis* – the launch of the electronic product.

Volume Editors Ei-ichi Negishi and Victor Snieckus, Brian Scanlan, President Thieme New York, and Guido F. Herrmann at The Colonade Hotel.

Launch and Celebration of the Electronic Version

The launch of the electronic version of *Science of Synthesis* and Houben–Weyl took place on the occasion of the 224th ACS National Meeting in Boston, MA, August 18–22, 2002. Many authors, volume editors, and customers took the opportunity to come to our booth to look at both products. We announced a distribution partnership of the electronic product with MDL and a celebration was held on the evening of August 19 at The Colonnade Hotel, Boston, which was attended by over 100 scientists. Speeches were given by Phil McHale, Vice President, Corporate Communications and Scientific Affairs MDL, and myself. Phil McHale said "Science of Synthesis *is an important addition to Integrated Major Reference Works, because it gives chemists access to the most complete compilation of synthetic methods, as well as crucial information on the scope and limitations of particular methodologies. The information provided in this monumental reference provides expert guidance to synthetic chemists."*

My comments were "Science of Synthesis *is a unique, indispensable product for every chemist, and we are excited to be releasing it in this user-friendly and powerful electronic format… We view the cooperation with MDL as an important cornerstone of the international marketing strategy for our methodological reference work."*

MDL is an international business headquartered in San Leandro, CA, with offices worldwide. Over 1000 life science compa-

Joe Richmond and Fiona Shortt de Hernandez at The Colonade Hotel.

***Visit us on the Internet:* 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 or katharine.bray@thieme.de

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nies use MDL software. MDL ISIS (Integrated Scientific Information System), MDL Available Chemicals Directory, CrossFire Beilstein, and ChemInform Reaction Library are some of MDL's products which synthetic chemists use on a daily base. *Science of Synthesis* is now also being distributed through the Integrated Major Reference Works family of content products offered by MDL. Integrated Major Reference Works uses InfoChem's software to let researchers navigate easily between MDL's synthetic methodology databases and *Science of Synthesis* containing authoritative information on the scope and limitations of synthetic methods.

Phil McHale, Vice President, Corporate Communications and Scientific Affairs MDL.

Science of Synthesis – The Electronic Version

The electronic version of *Science of Synthesis*, based on InfoChem's Web Search System, has been designed to leverage the print version's strengths. The product was developed in close cooperation with our Advisory Board, comprising of chemical information and software specialists, to produce a system at the forefront of information technology and tailored to the chemist's needs. From a user-friendly interface, researchers can retrieve information either by browsing through the data's intuitive hierarchical structure or by searching by keyword, full text, substructure, structure, and reaction using the InfoChem search engine.

The entire back file of Houben–Weyl (1st Edition to E-series) dating back to 1909 is now also available in electronic format – this consists of 140 volumes, 172 books, 157 843 pages (118 970 pages in German, 38 292 pages in English), 1240 authors, approximately 77 300 experimental procedures, illustrated with 145 700 reactions, approximately 580 000 compounds, and approximately 701 000 references, with a coverage of references from 1835 up to 2001.

Best regards,

Guido F. Herrmann
Managing Director
Thieme Chemistry

For further information about the electronic version of Science of Synthesis and Houben–Weyl please contact:

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Editorial Update

M. Fiona Shortt de Hernandez, Managing Editor
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Summer Conference Season

The summer season has been particularly busy for the editorial office with the attendance of team members at numerous international conferences. We were very pleased to meet many of our authors, volume editors, and members of the editorial board at the different events. Participating at these conferences provide a wonderful opportunity to meet new people, exchange ideas, discuss editorial policies, and learn new chemistry. We were most encouraged by the feedback that we have received at the conferences about the quality of the *Science of Synthesis* series. Do check our Web site (www.science-of-synthesis.com) for the full details of our conference participation. Also, please contact us with details of conferences that you think would be a good idea for us to be present in 2003.

BOSS-9 Thieme meal.

Volume 2 and 5 Due for Publication This Year

We are obviously extremely happy about the launch of the electronic version of *Science of Synthesis* which took place at the 224th ACS in Boston, described earlier by Dr. Guido F. Herrmann. The editorial office will complete Volume 2 [Compounds of Groups 7–3 (Mn…, Cr…, V…, Ti…, Sc…, La…, Ac…) – Noyori/Imamoto] for publication early in October and we hope to complete Volume 5 [Compounds of Group 14 (Ge, Sn, Pb) – Thomas/Moloney] by December. Both volumes will be included in the next release of the electronic version which will take place next year.

Visitors to the Editorial Office

Dr. Jutta Backes visited the editorial office in July and gave a seminar on Houben–Weyl to the editorial team. The detailed background information given in addition to the guidance we received with regard to the use of the indexes and the structure of the series was most beneficial. Jutta Backes is currently working on the indexes for Houben–Weyl E22 (Synthesis of Peptides and Peptidomimetics) – the very last volumes in the Houben–Weyl series. This is a four volume series, one volume has already been published (2001) and the remaining three volumes will be published within the next six months. Jutta Backes has been associated with the Houben–Weyl project for 26 years.

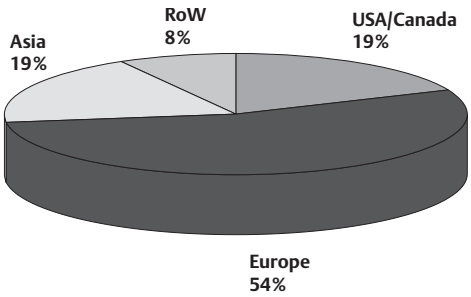
Also in July we were very pleased to have Professor Shun-ichi Murahashi visit our office in Stuttgart with Dr. Joe Richmond. Shun-ichi Murahashi is the volume editor for Volume 19 and has already recruited all of the authors for his volume. One of the authors of Volume 19 (and also Volume 4), Dr. Michael North, has recently been promoted to the rank of professor at King's College London. We would like to congratulate him on this achievement!

Volume 19 Editor, Shun-ichi Murahashi, Visits Editorial Office.

New Spotlight

I am delighted that in this issue we introduce the first spotlight, which focuses on a country and it's organic chemistry. In this spotlight we would like to illustrate the history of organic chemistry in a chosen country, the main institutions and research centers, the status of organic chemistry in this country at this moment in time, and thoughts on the future of organic chemistry in this region. *Science of Synthesis* is an international project with over 450 authors contributing from 37 different countries. The first spotlight is written by Volume 5 Author Dr. Pat Guiry (UCD, Dublin, Ireland). I would like to invite other authors of *Science of Synthesis* from around the world to contribute to this section and provide our readers with a brief insight into what is happening in organic chemistry around the world.

Editorial Office Participate in Houben–Weyl Seminar.



Distribution of *Science of Synthesis* Authors.

Spotlight – Chemistry in Ireland

Pat Guiry, Volume 5 Author

Patrick.Guiry@ucd.ie, UCD, Dublin, Ireland

Ireland, a country well-known for its music, art, and, literature, has however received less attention for its contributions to science. The world of chemistry contains a number of famous Irish scientists such as Robert Boyle, William Higgins, and Kathleen Lonsdale. Since the foundation of the state in 1921 chemists have continued to play a key role in the development of an industrial sector that rivals the more traditional dependence on agriculture. The pharmaceutical industry is one of the Irish success stories and has been an important factor in the booming economy (known as the 'Celtic Tiger') the country has experienced over the last decade. Nine of the top ten pharmaceutical companies in the world have manufacturing bases here with the majority of these established during the 1970s and 80s. The main reasons for this choice of location was Ireland's entry into the European Union in 1973, a young well-trained work force, a pro-business environment, and attractive tax breaks. Currently, more than 80 overseas companies employ 13 000 people and export EUR 18 billion annually, representing over 20% of Ireland's total exports.

Education and Research

The well-trained work force originates primarily from the university sector which is the colleges of the National University of Ireland at Dublin, Cork, Galway, and Maynooth, Trinity College Dublin, and the more recent University

University College Dublin

of Limerick and Dublin City University. The largest department of chemistry is at University College Dublin (UCD) and, as an example, has graduated over 400 PhD chemists since 1960 and has a typical final year undergraduate class of 50–55 students. With a doubling in the number of students in technical and technological institutions over the last ten years, the proportion of Irish people aged 25–34 with scientific qualifications is the highest in the OECD countries. The professional body of chemists in Ireland is the Institute of Chemistry in Ireland which seeks to promote the advancement and knowledge in chemistry in all its branches and there is also an active Irish branch of the Royal Society of Chemistry. Other learned societies that have chemists as members include the Royal Dublin Society and the Royal Irish Academy.

Ireland, like many of the countries in Western Europe, is experiencing a decline in the number of students reading chemistry although the decline is not as marked as in other countries. A recent Government Task Force on the Physical Sciences has recommended (amongst others) the introduction of science at primary level and a substantial increase of funds to modernise both school and university undergraduate laboratories. This is not the sole initiative the Irish government has taken, as it has undergone a welcome sea of change in its attitude to the funding of basic research. Up until the mid 1990s the government funding of basic research was the lowest as a percent of GNP within the European Union and much credit is due to those

faculty members who nevertheless maintained research programmes despite the lack of 'state of the art' infrastructure and equipment.

The Irish government has allocated EUR 2.5 billion to research, technology, and innovation activities in the National Development Plan 2000–2006. Two government-administered schemes will distribute about half of these funds by 2006 with the remainder allocated to Government bodies to support PhD scholarships, attract inward investment, and aid in the development of indigenous industries. The first scheme, the Programme for Research in Third Level Institutions (PRTLI), is administered by the Higher Education Authority (www.hea.ie) and aims to build a strong academic base. To this end, the PRTLI has invested over EUR 630 million since 1999 in the university sector. Cycle 3 of the PRTLI announced in December 2001 allocated EUR 178 million for buildings and equipment and EUR 142 million to support research personnel.

Centre for Synthesis and Chemical Biology

The Centre for Synthesis and Chemical Biology (CSCB) is an example of a chemistry-related project funded in Cycle 3 to the tune of EUR 26 million. The CSCB, one of the three centres of UCD's Conway Institute of Biomolecular and Biomedical Research, assembles 37 faculty members in the chemical sciences from University College Dublin (UCD), Trinity College Dublin (TCD), and the Royal College of Surgeons in Ireland (RCSI). A total of 25 PhD studentships, 32 postdoctoral fellows, three lecturers, and a Chair in Chemical Biology will be recruited over the next four years in the areas of synthetic chemistry, biological and medicinal chemistry, carbohydrate chemistry, asymmetric synthesis/catalysis, combinatorial chemistry, drug delivery, supramolecular chemistry, sensors and imaging, physical organic chemistry, organometallic chemistry, bioinorganic, structural, and computational chemistry (http://chemistry.ucd.ie/cscb). The CSCB will be housed in 2000 m^2 of new laboratories linked to almost 1000 m^2 of existing laboratory space, refurbished to a modern standard. This will bring together over 150 researchers in synthesis and chemical biology, located in close proximity to the Conway Institute at the UCD site. Capital funding is being used to purchase state of the art equipment for the CSCB. This combination of modern laboratories, equipment, and personnel aspires to the physical and human infrastructure required for a centre of excellence in synthesis and chemical biology.

Other PRTLI-Funded Projects

Other PRTLI-funded chemistry related projects include the Analytical and Biological Chemistry Research Facility (ABCRF) at University College Cork (UCC) and a National Institute for Cellular Biotechnology at Dublin City University. The ABCRF consists of researchers from synthetic organic chemistry, bioinorganic chemistry, analytical chemistry, and biochemistry, and will be housed in new laboratories to be constructed over the next two years. Location of the ABCRF adjacent to the new School of Pharmacy and the Biosciences Institute at UCC will facilitate additional research interaction with these key centres. Projects in the ABCRF range from development of biosensors to application of biocatalysts in synthesis to design and synthesis of bioactive compounds with particular emphasis on potassium channel modulators, anti-cancer, and anti-viral compounds.

Science Foundation Ireland

The second Government scheme, Science Foundation Ireland (www.sfi.ie), was launched in 2000 and aims to establish Ireland as a centre of research excellence in the strategic areas of biotechnology and information and communication technology. Science Foundation Ireland (SFI) has a budget of EUR 635 million, half of which will be allocated to biotechnology, gives Irish scientists the opportunity to expand their research activity and also to attract to Ireland a number of researchers at the leading edge of their disciplines. The typical grant size is EUR 1.2 million per annum for Principal Investigators, between EUR 250 000–500 000 for SFI Fellow Awards and up to EUR 5 million per annum for Centres for Science, Engineering, and Technology which involve university-industry collaboration.

Pharmaceutical Companies Expanding Operations

It is not surprising with such an investment in human capital that the pharmaceutical companies already based here are expanding their operations, for example Eli Lilly, Merck Sharp & Dohme, and Bristol Myers Squibb all have significant expansions underway. In addition, biopharmaceutical companies are also seeing the advantages of locating

here. The Wyeth Medica arm of American Home Products is building a EUR 1 billion, 1.2 million square foot biotechnology campus in Dublin which will open in 2004 and will employ 1300 people. Genzyme Corporation (USA) is locating its new Irish subsidiary in Waterford and will employ 480 people by 2006.

As Ireland moves to an innovation-based society it is clear that chemistry and chemists will continue to play a leading role and the outlook has seldom appeared so bright. Long may it continue!

Thieme–IUPAC Prize

Lindsey Sturdy, Scientific Editor
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The Thieme–IUPAC Prize was awarded to Erick M. Carreira at ICOS-14

In July, more than 450 chemists attended the 14th International Conference on Organic Synthesis (ICOS-14) held in Christchurch. Over half of these delegates traveled across from the northern hemisphere for the meeting, and for many this was their first antipodean adventure. As well as providing a forum for chemists to exchange ideas, ICOS-14 was the setting for the presentation of the Thieme–IUPAC prize to the 6th winner, Erick M. Carreira.

For those not so familiar with chills in July, the warm welcome from the co-chairs, Margaret Brimble and Jim Coxon, and the organizers gave a pleasant contrast. Their program emphasized the value of organic synthesis today and encompassed subjects such as the synthesis of bioactive molecules, stereoselective synthesis, metal-mediated synthesis, green chemistry, combinatorial chemistry, and automation in synthesis. Many prominent chemists gathered to present their work in 10 plenary lectures, the Thieme–IUPAC Award Lecture, over 20 invited lectures, and in six mini symposia.

Thieme–IUPAC Award Lecture

The hall was filled to capacity for the eagerly awaited Thieme–IUPAC Award Lecture. Announced in spring, Erick Carreira became this year's recipient of the prize in recognition of his distinguished contributions to the field of organic synthesis. Erick Carreira's name was one of a group of exceptional nominees. The decision to honor him with the prize was made by the selection committee, chaired by Victor Snieckus and comprising Anthony Barrett, David Black, Margaret Brimble, Pat Confalone, Scott Denmark, Alois Fürstner, and Steve Hanessian. The choice of Erick Carreira appears to have been enthusiastically welcomed by the scientific community.

Guido F. Herrmann, Victor Snieckus, Erick Carreira, Margaret Brimble, and David Black.

Margaret Brimble began the award certificate presentation by introducing David Black, who spoke of IUPAC's involvement. Since David Black appeared on the selection committee, Gerrit-Jan Koomen acted as the representative for IUPAC, encouraging people to submit nominations. The active support and collaboration of the IUPAC secretariat was also much appreciated by us. Guido F. Herrmann then gave a speech on behalf of Thieme discussing its role. Finally, Victor Snieckus, as Chairman of the Selection Committee, opened the session by giving an informative and light-hearted introduction of Erick Carreira, highlighting significant areas in his research before presenting him with the award certificate.

The engaging award lecture given by Erick Carreira provided an introduction to the many different areas of innovative research currently going on in his laboratory, ending on new investigations in the area of photoreactive compounds.

Celebration Dinner

A dinner was held the same evening in celebration of Erick Carreira's receipt of the prize, attended by affiliates of Thieme primarily involved in *Science of Synthesis, SYNLETT,* SYNTHESIS, and Houben–Weyl. The venue was Bellamy's, a part of the historical Provincial Council Chambers, situated on the banks of the Avon River, around the rooms of which the guests were guided.

Dinner at Bellamy's – William Roush, Erick Carreira, and Albert Padwa.

After sampling the local beverages and cuisine, the guests were given a short, informal presentation from Guido F. Herrmann, who presented Erick Carreira with the remainder of the prize and thanked those responsible for coordinating the various stages of it.

Whilst enjoying the view of the Southern Alps, having managed to get through customs relatively painlessly in comparison to some reports, it was clear to see the appeal of New Zealand at any time of year. The meeting was fruitful and very successful, and the Thieme–IUPAC prize was certainly regarded as a highlight.

In addition to all those involved, I would particularly like to thank Victor Snieckus and Margaret Brimble for their immense help and support of the Thieme–IUPAC prize over the last two years.

The Thieme–IUPAC prize is awarded every two years to a scientist under 40 years of age whose research has had a major impact in synthetic organic chemistry. The 7th Thieme–IUPAC prize will be presented at ICOS-15 in Nagoya, Japan, August 1–6, 2004; the call for nominations for this prize will be opened in July 2003. For further information contact lindsey.sturdy@thieme.de.

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Marketing News

Thomas Krimmer, Marketing Manager
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The conference season is already nearing its end and it seems like only yesterday that I was writing for the last newsletter, informing you of where we would be present. It has been a productive and very busy summer. Thieme Chemistry has had personnel at 14 conferences already this year, and we have provided information on *Science of Synthesis* at 27 conferences and symposia. As you can imagine there is far too little space here to provide you with a complete description of our activities, so I will provide you with some information on the marketing highlights for the summer of 2002.

In June we were fortunate enough to be able to attend the 9th Blue Danube Symposium on Heterocyclic Chemistry, which was staged in Tatranská Lomnica (Slovac Republic). This conference brought together figures from institutions all over Eastern Europe, as well as some famous names from the rest of the world. This was by far the largest conference that the organizers had ever hosted and was a great success drawing 300 specialist heterocyclic chemists.

Later in June we attended the 2nd Transmediterranean Colloquium on Heterocyclic Chemistry (Bari, Italy). This conference provides a forum for Southern European chemists to present some of their excellent, and often underrepresented, research. Our presence was very well received and the attendees appreciated our efforts to make our products available to all regions of the chemical research community. I was even provided with the opportunity to give a lecture entitled "*Science of Synthesis*: Transformation of a classical reference work for synthetic chemists into a comprehensive source of evaluated information".

At the end of June we attended the 2nd Balticum Organicum Syntheticum conference in Vilnius (Lithuania), which was attended by 250 people. Thanks to the concerted efforts of Professsor Victor Snieckus this conference was a huge success attracting a targeted audience from industry and academia. As part of our continuing effort to bring up-to-date information to chemists in Eastern Europe we donated a volume of *Science of Synthesis* to Professor Eugenijus Butkus, a member of the local organizing committee, for his team's dedication to the conference. The conference culminated in Mr. Valdas Adamkus (The Lithuanian president) awarding Victor Snieckus the *Order of the Lithuanian Grand Duke Gediminas.*

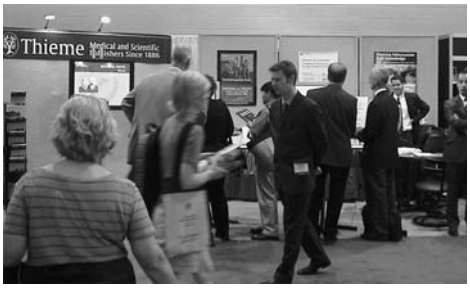
Thomas Krimmer Presenting Eugenijus Butkus *Science of Synthesis* Volume 12.

K. Barry Sharpless, Jean-Pierre Vors, and Thomas Krimmer at BOS 2002.

Two superb conferences were scheduled in July, but unfortunately they were being run simultaneously at opposite ends of the continent, and as I don't have a doppelgänger I was not able to attend both. However, with the help of our versatile, and ever professional, sales and editorial teams we were able to represent our products at both conferences. The BOSS-9 conference (Belgium), which I did not attend, generated some interesting leads and the attendees demonstrated great awareness of our product range. It's gratifying to see that our efforts are paying off.

BOSS-9, Belgium.

The XXth International Conference on Organometallic Chemistry (Corfu, Greece) attracted 670 industrial and academic scientists, providing us with a tremendous audience for our products. The Thieme Chemistry dinner for our authors and editors was also a very enjoyable evening. We were happy to be able to meet all of those who could attend our Thieme Chemistry meals that were held at conferences this summer and we hope that you all enjoyed the opportunity to mingle with your fellow editors and authors.



Thieme at ACS, Boston.

More recently we attended the 224th ACS national meeting in Boston. This conference attracted 17 121 delegates. We chose to use this huge audience as a spring board to launch our new electronic products. The reception provided a chance to meet the huge range of people involved in the project, as well as some of our customers.

Finally, in the past few weeks Thieme Chemistry attended the 27th European Peptide Symposium in Sorrento. This meeting provided us with a highly focused audience for our E22 series of Houben–Weyl, entitled 'Synthesis of Peptides and Peptidomimetics'. Of course, we were also displaying both the electronic and printed version of *Science of Synthesis* to the 1200 attendees, allowing us to reach a huge audience of synthetic organic chemists from all over the world.

So all in all this has been a highly fruitful summer for the Thieme Chemistry Marketing Department, but it's not quite over yet! Over the next quarter we will be consolidating the market awareness for our products by making personal correspondence to our new contacts and preparing for the publication of our new *Science of Synthesis* volumes, as well as the launch of the electronic version of *Pharmaceutical Substances,* which is earmarked for release by the end of 2002. For more information on the conferences attended and any other new developments visit our Web site at www.thieme-chemistry.com.

Welcome to New Authors

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

Volume 8

Prof. A. Jonczyk (Warsaw University of Technology, Poland)
Dr. A. Kowalkowska (Warsaw University of Technology, Poland)

Volume 14

Dr. N. Camp (Eli Lily, UK)
Dr. S. Faulkner (University of Manchester, UK)

Volume 18

Dr. R. Bolton (Slough, UK)

Volume 21

Prof. J. Liebscher (Humboldt Universität Berlin, Germany)
Dr. M. Paetzel (Humboldt Universität Berlin, Germany)
Prof. V. O. Cesare (Saint Johns University, USA)
Dr. Y. H. Kim (Dupont, USA)
S. Pritz (Humboldt Universität Berlin, Germany)
Prof. W. D. Lubell (University of Montreal, Canada)

Volume 22

Dr. J. Hu (University of Southern California, USA)
Prof. G. K. S. Prakash (University of Southern California, USA)
Prof. W. Kantlehner (Fachhochschule Aalen, Germany)
Prof. H. Lebel (Université de Montréal, Canada)
Prof. T. Murai (Gifu University, Japan)
Prof. T. Wirth (University of Cardiff, UK)

Volume 23

Prof. G. Kollenz (Karl-Franzens-Universität Graz, Austria)

Volume 26

Dr. Y. Six (ICSN-CNRS, France)
Dr. J. M. Campagne (ICSN-CNRS, France)
Dr. T. Constantieux (UMR-CNRS, France)

Position Available – Assistant Scientific Editor

Requirements

- PhD in organic chemistry
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- Ability to problem solve
- Advantageous but not essential: previous publishing experience/ publishing courses

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Responsibilities

Editorial Duties:
- Proofreading, copyediting, checking drawings (structures)
- Revision of table of contents, preparation of evaluations on sample chapters

Marketing/Sales:
- Liaise closely with the sales and marketing team, and, provide technical/ editorial information as required
- Represent the editorial office and promote Thieme products at conferences

Managerial Duties:
- Deadline management – close contact with authors

Thieme offers a comprehensive benefits program and relocation assistance. The successful candidate would be expected to be able to take up the position in the near future.

Interested? Then please send us a full CV, containing the name of two current referees accompanied by a handwritten supporting letter. Informal queries to Dr. M. Fiona Shortt de Hernandez, Managing Editor (e-mail: fiona.shortt@thieme.de).

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Personal News

Susanne Haak Congratulating Victor Snieckus.

On the 26th June the President of the Republic of Lithuania, Mr Valdas Adamkus, presented **Professor Victor Snieckus** (Queens University, Ontario), Editor of Volume 8, the Order of the Lithuanian Grand Duke Gediminas, for his contributions to Lithuanian chemistry. This award was reinstated after the restoration of the independence of Lithuania, it is Lithuania's highest nonmilitary medal and honors citizens of Lithuania for outstanding performance in civil and public offices.

Kudos to the following 2003 ACS National Award winners: *Science of Synthesis* editorial board member **Dr. Paul J. Reider** (Amgen, Thousand Oaks, California), the Earle B. Barnes Award for Leadership in Chemical Research Management and the Ernest Guenther Award in the Chemistry of Natural Products to *Science of Synthesis* editorial board member **Professor Steven V. Ley** (University of Cambridge). They will receive the awards at the 225th ACS meeting in New Orleans, on Tuesday March 25th.

Our Cooperation Partner – Ziegler + Müller text form files

Annette Ziegler
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Ziegler + Müller was founded in 1998 as an enterprise offering services to the publishing sector. Having worked in this sector for several years as employees we wished to combine maximum quality for our customers with optimal organisational effectiveness and to realise these objectives in a newly established enterprise.

The main focus of Ziegler + Müller is on the technical production of books and scientific journals. Various publishing houses and authors rely on us for many of the services required in the publishing process. We typically start with manuscripts delivered to us as prints or files, generate new data based on the print material or edit the data, design or adapt a layout model, take care of all stages of the typesetting process including internal corrections and finally generate data – mainly as postscript files – which is then sent to the customers or the printers depending on the final product. In the initial stages, i.e. during the process of editing and converting the data delivered by the author, we use a software application developed in-house which interacts with Microsoft® Word. To deal with the various typesetting tasks we usually work with 3B2 which can be programmed with a high degree of flexibility using macros and scripting facilities and offers various advantages, especially when working with more voluminous books or large data files.

Knowing that some clients appreciate being able to assign not just single jobs but an entire project to an external partner, one of the services we offered our customers right from the beginning was the creation of various types of diagrams and charts. In 2001 we installed two additional workstations with image processing and repro facilities including a proof system which permit us to digitalise and edit all types of artwork or digital imaging data.

In addition to the technical aspects of the typesetting process we also provide editorial services. Manuscripts are edited on paper or digitally in accordance with technical or content-specific instructions; we have a team of copy editors whose main focus is editing medical texts for scientific journals. We also do translations, proofreading, data processing, and/or data conversion.

Science of Synthesis is one of the most important and ambitious of the projects we do as production partners of Georg Thieme Verlag. The *Science of Synthesis* layout was developed in 1998/99 by the then head layouter of Thieme, Peter Helms, together with Annette Ziegler, and Marc Jung, who is now responsible for *Science of Synthesis* at Ziegler + Müller. Cooperating closely with Dr. Rolf Hoppe and the Editorial Office, a comprehensive and effective workflow was designed. The scientific editors together with Managing Editor Dr. Fiona Shortt de Hernandez and Production Coordinator Leigh Murray supply validated SGML data which is used for the typesetting process. The SGML-data input is optimally prepared for typesetting, e.g., by pre-hyphenating chemical names according to the ACS guidelines. Due to this preparatory work the actual timespan needed for typesetting a given text is greatly reduced; the galley proofs are usually returned to the editorial office only a few hours after having received the SGML data. All links to schemes, compounds, tables, literature references, and sections are checked before processing the PDF files which are then returned to Thieme. In addition to the PDF files the Editorial Office also receives a detailed log-file on this verification procedure, which contributes to the high quality standards of *Science of Synthesis*, starting from the first galley proofs until the final book version. As soon as the imprimatur is given, the postscript data are processed and forwarded to the printers. Afterwards the SGML data are retrieved from the 3B2 files and sent to Dr. Rolf Hoppe to be integrated into the electronic version.

Marc Jung, Responsible for *Science of Synthesis* at Ziegler + Müller.