



Science of Synthesis News

Volume 2, Issue 2 June 2002

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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

Pictures are welcome!

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Rüdigerstraße 14
70469 Stuttgart
Germany

 **Thieme**

Welcome from the Managing Director

guido.herrmann@thieme.de

Dear Reader,

It is with great pleasure that I welcome you to the fifth *Science of Synthesis* Newsletter.

In this issue one of our main cooperation partners InfoChem will be introduced. We have been engaged in a successful collaboration with InfoChem since 1996. InfoChem produces the reaction database, which includes all reactions selected by our authors for *Science of Synthesis*. These reactions are fully searchable in the electronic version of *Science of Synthesis*. InfoChem have also been involved in the development of the interface of the electronic version. If your institution is interested in getting access to the electronic version of *Science of Synthesis* please contact Dr. Norbert Kummer or Dr. Kristina Kurz of our sales department.

During this summer, members of the Editorial Office and of our Sales and Marketing departments will be visiting many of the conferences of interest to synthetic chemists. We certainly hope to meet you there in person. Good personal relationships with our authors are one of our most important goals



and we feel very privileged to serve the best synthetic chemists in the world.

Finally, on behalf of Thieme Publishers and IUPAC it is my great pleasure to announce that the sixth Thieme–IUPAC Prize in Synthetic Organic Chemistry will be presented to Professor Erick M. Carreira, ETH Zürich, Switzerland, on the occasion of the International Conference on Organic Synthesis (ICOS 14) in Christchurch, New Zealand. Erick Carreira will receive the prize in recognition of his outstanding contributions to synthetic organic chemistry. Erick Carreira will deliver the Thieme–IUPAC Award Lecture on July 16th, 2002. There will also be a dinner in honor of Erick Carreira on July 16th, 2002 at which representatives of IUPAC, Thieme, the editorial boards of *SYNTHESIS*, *SYNLETT*, *Science of Synthesis*, and Houben–Weyl, and members of the selection committee will be in attendance.

Guido F. Herrmann
Managing Director
Thieme Chemistry

Editorial Update

M. Fiona Shortt, Managing Editor

fiona.shortt@thieme.de

We are very happy to announce that *Science of Synthesis*, Volume 12 (Five-Membered Heteroarenes with Two Nitrogen or Phosphorus Atoms), 796 pages, was published on May 8th, 2002. The responsible member of the board was Professor Daniel Bellus and the volume editor Professor Reinhard Neier. Congratulations go to Daniel Bellus, Reinhard Neier, and the authors of Volume 12 for producing such a top quality volume. Reinhard Neier will make a few comments about the volume itself and the work involved later in this newsletter.

Our next target volume is *Science of Synthesis*, Volume 2 [Compounds of Groups 7–3 (Mn..., Cr..., V..., Ti..., Sc..., La..., Ac...) – Noyori/Imamoto] which will be published this summer.

The editorial team has also been devoting a considerable amount of time over the last few months to the testing of the new electronic product and Dr. Susanna Stephen has recently finished compiling the *Getting Started Manual*, a user's guide which will be provided with the electronic product. The electronic product is now available and contains the material published in Volumes 1, 4, 9, 10, and 11.

Many members of the *Science of Synthesis* editorial team will be attending conferences over the summer, details can be found at the



Science of Synthesis Web site. We do hope that some of you will be able to attend the dinners and receptions held by Thieme at these events, so that we can meet in person and discuss the progress being made with your contributions.

I would like to mention one event in particular, which is being sponsored by Thieme, and that is the Alan Johnson Memorial Lecture/Cornforth–Eaborn Lecture on Friday, August 2nd at the University of Sussex, UK. This event is being organized by Professor Phil Parsons and lectures are to be given by Professor John Nixon (University of Sussex, UK), Professor Stephen Buchwald (MIT, USA) the Cornforth–Eaborn lecture, and Professor Gilbert Stork (Columbia University, USA) who will give the Alan Johnson memorial lecture.

We were very pleased to have Professor Janine Cossy (ESPCI, Paris, France) visit the editorial office in March to discuss *Science of Synthesis*



Janine Cossy, ESPCI, Paris, France.

Editorial Office

Managing Editor

Dr. M. Fiona Shortt

Production Coordinator

Leigh Murray

Scientific Editors

Dr. Karen M. Muirhead

Lindsey A. Sturdy

Assistant Scientific Editors

Dr. Ayse Abdullah

Dr. Katharine Bray

Dr. Susanna Stephen

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Editorial Secretary

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Dr. Jutta Backes

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Dr. Kay L. Greenfield

Dr. Carmel Hayes

Dr. Stephen Hunt

Dr. Rupert Purchase

Dr. Joe P. Richmond

Prof. Malcolm Sainsbury

Dr. Elizabeth Smeaton

Drawers

Hanne Haeusler

Hilpi Segnitz

Lisa Ulbrich

Kornelia Wagenblast

Georg Thieme Verlag

Rüdigerstraße 14

70469 Stuttgart

Germany

Phone + 49 (711) 89 31-774

Fax + 49 (711) 89 31-777

E-mail science-of-synthesis@thieme.de

WWW www.science-of-synthesis.com

Volume 26 (Ketones) and to meet members of the editorial team. Janine Cossy is the volume editor responsible for Volume 26 and Professor Jim Thomas is the responsible member of the editorial board. Janine Cossy also gave talks at the Universität Stuttgart and the Universität Heidelberg during her visit. The first tables of contents for Volume 26 have already been submitted by the authors and we are looking forward to a fruitful collaboration with Janine Cossy during the course of this project.

We were also delighted to have both Professor Victor Snieckus (Queen's University, Canada) and Professor Marek Majewski (University of Saskatchewan, Canada) visit the editorial office in May 13th to discuss Volume 8 [Compounds of Group 1 (Li...Cs)] in detail. Victor Snieckus and Marek Majewski



Susanna Stephen, Fiona Shortt, Karen Muirhead, Ayse Abdullah, Marek Majewski, Lindsey Sturdy, Victor Snieckus.

are the joint volume editors of Volume 8 and Professor Barry Trost is the responsible member of the board. Marek Majewski joined the project recently and together with Victor Snieckus will work closely with the authors of Volume 8 and the editorial office to help ensure that this volume is published in 2004.

Finally, Professor Albrecht Salzer (Institut für Anorganische Chemie, Aachen, Germany) was invited to give an organometallics nomenclature seminar to the editorial team recently. Albrecht Salzer, who has written a paper for IUPAC on the Nomenclature of Organometallic Compounds of the Transition Elements [*Pure Appl. Chem.*, (1999) **71**, 1557], visited the editorial office in May. The seminar was extremely good and a further seminar regarding the nomenclature of organometallics and the chemistry of organometallics in general is planned for later this year.



Albrecht Salzer, Institut für Anorganische Chemie, Aachen, Germany.

Volume 12 in Print

Reinhard Neier, Volume 12 Editor

The publication of *Science of Synthesis* Volume 12, in May, was a result of the impressive effort of nine dedicated authors and the *Science of Synthesis* editorial office. Volume 12 was the fourth volume that is dedicated to heterocyclic chemistry to be published.

For the authors it was not a trivial undertaking to describe the huge amount of literature in a concise way highlighting the best and most useful methods, and also judging that the methodology reported will stand the test of time. For me it has been highly gratifying to collaborate with world experts on these subjects. The authors' impressive enthusiasm and willingness to accept suggestions for modifications contributed considerably to the quality of this volume, meeting the high standards set by Thieme and the volumes already in print. The result of this considerable effort is a volume which will give the reader a clear picture of the state of the art.

During this project it has been an extraordinary chance for me to collaborate with



Professor Daniel Bellus, as responsible member of the editorial board. Without the steady help and the excellent advice of Daniel Bellus it would have been impossible for me to solve many of the problems en route. The collaboration with Thieme has always been smooth. I am especially indebted to Dr. Guido F. Herrmann and

Dr. M. Fiona Shortt for their help at every stage of the project.

I do hope that this volume will find its way into all chemistry libraries due to the interest of the heterocycles treated in this volume, but hopefully also because of the judicious choice of the synthetic methods presented in this volume. It is in view of the future readers and users that all these efforts have been undertaken and we hope that Volume 12 of *Science of Synthesis* will help chemists today and in the future to meet the ever-increasing demands on their synthetic excellence.

Volume 6, Boron Compounds

Donald S. Matteson is known throughout the world for his numerous contributions in the field of organoboron chemistry and the use of boron compounds in asymmetric synthesis. We are very pleased to welcome him as coeditor of Volume 6, working



together with Professor Dieter E. Kaufmann. Born in Montana, Don Matteson enjoyed a solid chemical education as an undergraduate at the University of California, Berkeley, and as a graduate student at the University of Illinois, Urbana. After a short time as a research chemist at the DuPont Experimental Station, Matteson returned to academic life by joining the staff at Washington State University, where he has been ever since. In recent years, Matteson has been best known for his contributions and discoveries on the use of boronic esters for asymmetric synthesis. He is a prolific writer: in addition to the many research papers he has published, he is author of numerous authoritative review articles, including a contribution to Houben-Weyl Volume E21 on Stereoselective Synthesis, and two books, including "Stereodirected Synthesis with Organoboranes", Springer-Verlag, 1995.

Matteson's work has bridged the gap between organoelement chemistry and organic synthesis. He is well-known in both communities and is a popular invited speaker at national and international conferences, where he is easy to spot with his hat and jovial smile. In addition, he has given many invited lectures and seminars at universities throughout the world, especially in the USA, Europe, India, and Japan. Matteson has served on several editorial advisory boards, including "Organometallics" and "Heteroatom Chemistry" and has consulted with a number of companies. He has been visiting professor at the Massachusetts Institute of Technology and at the University of Rennes in France. He is a dedicated teacher and has explained, "All of the research I do has a strong teaching component."

Matteson's contributions have been recognized by numerous fellowships, honors, and awards, including an Alfred P. Sloan Foundation Research Fellowship early in his career and the BUSA Award "for distinguished achievements in boron science" in 1992.

Matteson's experience, talents, and dedication make him an ideal choice to work with Dieter Kaufmann on the editing of the Boron Volume of *Science of Synthesis*.

Volume 22, Three Carbon-Heteroatom Bonds: Thio-, Seleno- and Telluro-carboxylic acids and Derivatives; Imidic Acids and Derivatives; Ortho Acid Derivatives

André B. Charette is arguably the top "40 and under" synthetic chemist in Canada today.

Therefore it is not surprising that he recently received the "CIAR Young Explorers Prize: Canada's Top Twenty Researchers aged 40 and under". His "older" countryman, Professor Mark Lautens, also became a *Science of Synthesis* volume editor a few years back before reaching the age of 40. Both are internationally acclaimed young stars in the areas of catalytic and stereoselective synthesis. Interestingly, both were postdocs in the group of Professor David Evans at Harvard. But in many other respects, these two brilliant Canadians are as different as the cities in which they work: Toronto and Montreal.

André Charette did his undergraduate studies at the University of Montreal, followed by graduate studies at the University of Rochester, where he received his Ph.D. in 1987 (with Professor Robert K. Boeckman Jr.). His graduate work involved studies of the synthesis of Ionophore Antibiotic A-23,187 (Calcimycin). During his postdoctoral stay in the Evans group at Harvard, he worked on the synthesis of the antineoplastic macrolide bryostatin. A colleague on this project was the then graduate student Professor Erick M. Carreira, recipient



of the Thieme-IUPAC Prize 2002. In fact, Charette, Lautens, and Carreira share papers published with Evans in 1998 and 1999 on the total synthesis of bryostatin 2.

After an assistant professorship at the Université Laval, 1989–1992, he moved to the University of Montreal, where he is now a full professor and holds the NSERC/Merck Frosst/Boehringer Ingelheim Industrial Chair. A review of his research contributions over the last decade reveals a continuing focus on the development of new methods in stereoselective synthesis and their applications to the synthesis of important natural and non-natural products. Catalytic asymmetric cyclopropanation of allylic alcohols has been part of his research program from the beginning, but also the design, synthesis, and application of new chiral auxiliaries. However, it is his work on nitrogen- and sulfur-containing compounds and on ortho-esters that makes him a leading world expert on the area covered by *Science of Synthesis* Volume 22.

In addition to his numerous original research papers, review articles, book chapters, and publications in refereed conference proceedings, he has given over 120 invited or plenary lectures at conferences, companies, and universities. In recognition of his achievements, he has received numerous fellowships, honors, and awards, including the Merck Frosst Centre for Therapeutic Research Award, 1998, the Astra Pharma Award RFP, 1999, and the CIAR Young Explorers Prize, 2002. He was a Guest Professor at the Beijing Medical University and a Visiting Professor at the Université Pierre et Marie Curie in France.

Charette brings extensive editing experience to *Science of Synthesis*. He is a member of the editorial board for "Organic Reactions". He was associate editor for the online-only journal "Molecules Online" and is a member of the editorial board for the "Canadian Journal of Chemistry".

Jim Thomas is the responsible editorial board member for *Science of Synthesis* Volume 22.



Volume 26, Ketones

Janine Cossy was born in Reims to a family of champagne producers – which has certainly made it easy for her to celebrate the many successes in her career. France has a long tradition of producing world-class women scientists and it is perhaps more than coincidence that Cossy is now a professor in the same Ecole where Marie Curie worked. Cossy's early career was spent in Reims, where she did her undergraduate and graduate studies at the University of Reims working on the photochemistry of ketones and enamino ketones. After a postdoctoral stay with Professor Barry Trost at the University of Wisconsin, she returned to Reims where she became a Director of Research of the CNRS in 1990. In the same year she moved to Paris to become a Professor of Organic Chemistry at the ESPCI, Paris. Since 1991 she has also been director of the CNRS Unit UMR 7084.

Cossy's research interests are very broad, but always with a focus on the synthesis of natural products and biologically active molecules. The synthetic methodologies that she develops and applies include radical reactions, photochemistry, thermal reactions, organometallic reactions, catalysis, ring-expansion reactions, opening of strained rings, synthesis of oxygen and nitrogen heterocycles, synthesis on solid supports, and stereoselective reactions. Her research efforts have resulted in almost 200 publications and patents. Especially in recent years, the productivity from her laboratories has increased continuously (35 publications and 3 patents in 2001). It is little wonder that she has many invitations as invited lecturer at conferences, universities, and companies throughout the world. At the same time, she serves on several societal and CNRS committees, is vice-president of the Société Française de Chimie, Organic Division, and is vice-president of the Société Franco-Japonaise de Chimie. In addition, she is on the editorial board of "New Journal of Chemistry" and on the advisory editorial board of "European Journal of Organic Chemistry" and "Journal of Organic Chemistry". Cossy has received a number of honors and awards, including the Médaille d'ar-



gent CNRS, 1996, and Chevalier de l'Ordre National du Mérite, 1997.

With Janine Cossy, we have the pleasure to welcome both the first woman and the first French chemist to the group of *Science of Synthesis* editors. Her international stature, her broad synthetic research program, and her high productivity and efficiency are all qualities that make her an excellent choice for the editorship of the Ketone Volume. Indeed, only a few months after she had agreed to take on this responsibility, she already had recruited all the authors for her volume.

Jim Thomas is the responsible editorial board member for *Science of Synthesis* Volume 26.

Volume 27, Heteroatom Analogues of Aldehydes and Ketones

Albert Padwa is a world-class organic chemist and an energetic personality. His direct approach to science and to life has resulted in a fabulously productive career. Born in New York City, he did both his undergraduate and graduate studies at Columbia University.

After an NSF Postdoctoral Fellowship at the University of Wisconsin, he joined the faculty at the Ohio State University. Still before his 30th birthday, he became a tenured faculty member of the State University of New York at Buffalo, where he became a full professor three years later. After 13 years at SUNY Buffalo (which included 35 M.S. and Ph.D. degrees in his group, 22 postdoctoral fellows, and almost 200 research publications) Padwa moved to Emory University in 1979 as William P. Timmie Professor of Chemistry. At Emory, he continued his productive endeavors. He has graduated 48 Ph.D.'s while at Emory and had 46 postdoctoral fellows in his group, coming from all parts of the world. His publication list has topped the 500 mark, not including almost 80 review articles and book chapters, as well as numerous published contributions at conferences. But his work with his students and prolific publication record are only two aspects of the very wide range of activities of Albert Padwa, who seems to literally live by the motto that no mountain is too high to climb, and let's have a lot of fun while we are doing it!



Padwa has always been extremely active and is also an avid world traveler. He has served on innumerable university, governmental and societal committees and has organized numerous scientific conferences and symposia. His contributions to the chemical community have included, among many other things, serving as Chairman of the Organic Division of the American Chemical Society, 1985–1986, and as President of the International Society of Heterocyclic Chemistry, 1994–1996. He has been Visiting Professor at Harvard University, ETH-Zurich, University Claude Bernard (Lyons), UCLA, UC-Berkeley, University of Wurzburg (Germany), University of Peking (China), Imperial College of Chemistry (London), and the University of Kaiserslautern (Germany). Padwa has consulted for a number of companies, including a law firm. The list of his invited and plenary lectures at conferences, universities, and companies runs to over 500.

Padwa's scientific work has focused broadly on organic synthesis, heterocyclic chemistry, organic photochemistry, and cyclization reactions. As he describes his work, "Emphasis is placed on new types of synthetic reactions which require a detailed insight into reaction mechanisms." The application of mechanistic, stereochemical, and quantum mechanical considerations to studies of the synthesis and properties of biologically important heterocycles has resulted in creative and pioneering work, which has helped shape the field of modern heterocyclic chemistry.

The list of fellowships, honors, and awards he has received for his outstanding scientific activities is too long to include here; a few highlights include the Alexander von Humboldt Senior Scientist Award, 1983–1985, the Senior Award in Heterocyclic Chemistry from the International Society of Heterocyclic Chemists, 1999, and the American Chemical Society Arthur C. Cope Scholar Award, 2000.

Padwa is an enthusiastic teacher who received the Emory University Scholar-Teacher Award in 1988. Besides university courses on topics including Advanced Synthetic Chemistry, Frontier M.O. Theory, Organic Photochemistry, Free Radical Chemistry and Organic Spectroscopy, he has held a 2-day course on Heterocyclic Chemistry for the pharmaceutical industry over 50 times.

Albert Padwa has also been a most active editor in organic chemis-

try as demonstrated by these editorial contributions: editor-at-large, *Organic Chemistry*, for Marcel Dekker, 1978–1991, and editor of “Organic Photochemistry”, Volumes 4–11; editor of “1,3-Dipolar Cycloaddition Chemistry”, 2 Volume Set, Wiley, 1984; senior advisory editor and founder of a dozen “Advances” series, JAI, 1983–1999; volume editor for “Comprehensive Heterocyclic Chemistry II”, Elsevier, 1996; editor with W. H. Pearson of “Synthetic Applications of 1,3-Dipolar Cycloaddition

Chemistry Toward Heterocycles and Natural Products”, Wiley, 2002. Padwa has also served on the advisory editorial boards of several journals, including “Journal of Organic Chemistry”, 1981–1985 and 1996–2000, “Journal of the American Chemical Society”, 1984–1987, “Heterocyclic Communications”, 1994 to present, the “Internet Journal of Chemistry”, 1997 to present, and “Organic Letters”, 1999 to present; he is the newly appointed associate editor of the “Journal of Organic Chemistry”.

Albert Padwa is a significant addition to the group of *Science of Synthesis* editors. His energy, enthusiasm, and dedication are contagious, and he is already well on his way to setting new records for speed and efficiency in the editorship of his volume on Heteroatom Analogues of Ketones and Aldehydes.

Daniel Bellus is the responsible editorial board member for *Science of Synthesis* Volume 27.

Personal News

Professor Hisashi Yamamoto (Nagoya University, Japan), Editor of Volume 7, will receive the Tetrahedron Chair at BOSS-9 in Namur Belgium, in July 2002. He will deliver a one-day course on the topic ‘Lewis Acid Catalysis: Toward More Selective, More Reactive and More Versatile Systems’. Hisashi Yamamoto will also be joining the University of Chicago as a Senior Organic faculty member from July 2002.

Editorial Board Member **Professor Ernst Schaumann** has been se-

lected for a second time of office as Rektor at the Technischen Universität Clausthal. He will hold the post from 1. 10. 2002–30. 9. 2004.

Professor James S. Panek (Boston University), Editor of Volume 20, will be presented an Arthur C. Cope Scholar Award at the 224th ACS National Meeting in Boston, in August 2002.

Professor Louis A. Carpio (University of Massachusetts), E22 author, has been awarded an ACS-PRF Grant for Advanced Scientific Educa-

tion and Fundamental Research in the Petroleum Field for the following research: Toward a Better Understanding of the Effect of Silylating Agents on Amide Bond Formation: New Opportunities for Peptide Coupling.

It is with great regret that we inform you of the death of **Professor Henry Rapoport**, retired chemistry professor at the University of California.

Our Cooperation Partner – InfoChem

Peter Löw, InfoChem

InfoChem, founded in 1989, is a software company focusing on the production and commercial marketing of new chemical information products. The company’s main activities involve the production and marketing of structural and reaction databases and the development of software tools required for these applications. InfoChem’s customers are large chemical and pharmaceutical companies worldwide. InfoChem is based in the Munich area and currently has 15 employees, all of whom have a university degree in one of the natural sciences. InfoChem is also represented by its subsidiary InfoChimia, in Berlin. Since 1991, the publishing house Springer-Verlag (Heidelberg) has held the majority interest in InfoChem. Since Springer-Verlag was taken over by Bertelsmann in 1998, InfoChem has become part of the Bertelsmann group.

The ‘SPRESI’ data file distributed by InfoChem is one of the largest data collections in organic chemistry. SPRESI currently contains 4.5 million structures and 3.5 million reactions covering the chemical literature pub-

lished since 1975. It was jointly created by the VINITI Institute (Moscow) and the ZIC Institute (Berlin). The conversion of these files into an electronic database format, along with the creation and marketing of various commercially usable products from this source, has been one of InfoChem’s major achievements. Developed in this context InfoChem’s Reaction Classification Algorithm ‘CLASSIFY’ is one of the most powerful tools available for structuring and, most of all, linking different reaction databases. In 1999 InfoChem was able to successfully launch the SPRESI structural and reaction database as an Internet application – a new way of making available such database products that is still unique to the market.

One of InfoChem’s most important activities over the last few years has been the cooperation with publishing houses in the conception and development of Internet/Intranet versions of printed major reference works. The software required for these web applications has been developed by InfoChem and the InfoChem Search Engine for structures

and reactions constitutes a central part of these electronic products. Based on InfoChem’s knowledge and expertise in this area, Thieme and InfoChem have joined forces in the production of the electronic version of *Science of Synthesis*.

The electronic version of *Science of Synthesis* consists of a structure/reaction database running in the background with the electronic form of the book in HTML format. These two components are linked together, allowing direct access from hits obtained from structure/substructure database queries to the corresponding location in the HTML page where the structure/reaction hit has been abstracted from. This approach connects results from database queries directly with the comprehensive and validated information in the text and thus constitutes a new dimension and quality of accessing chemical information.



The Sales Team

Sales Director

Dr. Norbert Kummer
(Stuttgart, Germany)

Sales Manager, Electronic Products

Dr. Kristina Kurz

Sales Associate

Alexandra L. Williams

Sales Assistant

Sarah Alonso

New York

Thieme Publishers
333 Seventh Avenue
New York
NY 10001
Fax +1(212)947-1112
E-mail kkurz@thieme.com

The Marketing Team

Marketing Manager

Dr. Thomas Krimmer

Marketing Assistant

Matthew Hart

Stuttgart

Georg Thieme Verlag Stuttgart
Rüdigerstraße 14
70469 Stuttgart
Germany
Fax +49(711)8931-777
E-mail marketing@science-of-synthesis.com

I am pleased to announce that the marketing department in Stuttgart has a new member, Matthew Hart, who started in March as the new marketing assistant. He will be responsible for our conference related activities, such as arranging promotional materials in attendee's bags and organizing the exhibi-



Matthew Hart, Marketing Assistant.

tions for Thieme Chemistry at various occasions. Furthermore, he is involved in the production of marketing material and will take over the updating of the www.thieme-chemistry.com site in the future.

Matthew holds a MSc. degree in chemistry from the University of Nottingham, Matthew also has work experience in the graphic design industry and in the Customer Business Development division of Procter and Gamble. I am happy to have him as assistant right from the start of the sales of our electronic products and wish him all the best in his new position.

As announced in the last newsletter, the Thieme Chemistry team has already been present at various conferences in 2002. The Spring ACS in April in Orlando was a great success, despite the fact that only 11 000 people attended this conference (which is the second lowest attendance in the history of ACS meetings, only topped by Dallas years ago). We were able to draw the attention of so many key customers to our booth that we harvested jealous gazes from our neighbors. As we were showcasing *Science of Synthesis* and the forthcoming electronic Houben-Weyl, which gives easy access to nearly 100 years of synthetic methodology compiled in its 160 volumes, this was not too difficult to achieve! The electronic version of Houben-Weyl encompasses the complete series as pdf files and an interactive table of contents module, it will therefore be an invaluable electronic tool that delivers your synthetic method of choice to your desktop in an instant. Together with the newly released back files of Thieme synthetic chemistry journals *SYNTHESIS* and *SYNLETT*, Thieme Chemistry is now offering full electronic access to the synthetic knowledge from the early 1800s to date. This is a definite achievement and makes it easy for the marketing personnel to surpass other exhibitors. OK, a little bit of the strong interest in our booth may have been due to the fabulous kite we were giving away in a lottery... If you have not seen the photos of the exhibition, don't miss out on the opportunity to check them out at www.thieme-chemistry.com because they may soon be replaced by new events.

Our presence at Analytica 2002 in Munich was a similar success. This

conference attracted 34 000 people which in Germany is a record. The interest in our products was equally good, with somewhat more focus on RÖMPP Online, our German encyclopedia, which has been available as an electronic version since March.

In close cooperation with the editorial offices of *Science of Synthesis* and the chemistry journals, the marketing department has arranged presences at a vast number of conferences during summer this year. Naming only a few Thieme chemistry will be at BOSS-9, Belgium, XXth ICOMC, Corfu, and the 224th ACS in Boston. For the full list please visit www.thieme-chemistry.com.

Also on our Web site, you can have a look at our new and fully revised chemistry catalogue, which is available to download as well as in print. This catalogue nicely reflects our approach to marketing the chemistry products, altogether, in a consistent manner, as with our Web pages. Do not hesitate to contact the marketing department to order your personal copy in print!



Thieme at ACS, Orlando.

Make sure to stop at our booth at one of the conferences mentioned above and have a look at the fascinating synthetic information Thieme Chemistry offers in printed and especially in electronic format. We hope to see you there!