

ASSOCIATION ANNOUNCEMENT

THE TENTH GENERAL ASSEMBLY OF THE INTERNATIONAL ASSOCIATION FOR MATHEMATICAL GEOLOGY

Friday, August 11, 2000

President Ricardo Olea opened the General Assembly at x:xx p.m. in room D-2 of the Main Congress Building in Rio de Janeiro, Brazil.

1. CERTIFICATE OF APPRECIATION

Peter Henn, Senior Publishing Editor for Pergamon Press/Elsevier, has for 24 years done exceptional work as the publisher's representative responsible for *Computers & Geosciences*. Through many changes of Editors-in-Chief and publisher's staff, he has consistently and effectively supported the journal and its objectives. Now, with his transfer to other duties within Elsevier, the IAMG Council voted to award a Certificate of Appreciation to him. The Certificate was presented at the General Assembly. The citation reads "To Peter Henn, for his outstanding work in coordinating development of the IAMG journal *Computers & Geosciences*."

2. REPORTS FROM OFFICERS

2.1. President's Report

Since the last General Assembly in 1998, the President, with the approval and assistance of Council, had direct involvement in:

1. Inception of two new programs: (a) Lecture Series, and (b) Student Grants. Two special-purpose commissions determined the benefits of these programs.
2. Preparation of guidelines to summarize experience, avoid misunderstandings, facilitate consistent and fair decision making, and contribute to defining the opportunities offered by IAMG: (a) Grant for the financial aid of non-IAMG meetings; (b) Presentation of Certificates of Appreciation; (c) Student Grants; and (d) Best Paper Awards. The first three sets of guidelines were prepared in coordination with special commissions and the fourth one with the Publications Committee. These and older guidelines are posted on the IAMG web site www.iamg.org.
3. Promotion of implementation of an electronic membership directory on the IAMG web site.
4. Formation of a commission that ran an opinion survey to learn what our members think about the organization and to employ the results in future planning.

5. Acceptance of a donation of US\$14,900 from Mathematical Geologists of the United States.
6. Selection of Cancun, Mexico, as the site for the IAMG2001 Conference, and of Berlin for IAMG2002.
7. Approval of exceptional aid to the Institute of Mathematical Geology, Saint Petersburg, Russia, consisting of a US\$10,000 grant conditional to the preparation of a special issue of one of our journals, yet to be determined.
8. Creation of a commission for the design and printing of 10,000 brochures.
9. Extensive discussions and implementation of ideas to boost membership, both by increasing the number of new applicants and by reducing attrition.

2.2. Vice President's Report

After a long lapse, IAMG received an invitation from the International Statistical Institute (ISI) to organize an invited paper meeting for their 52nd Biennial Session, August 10-18, 1999 in Helsinki, Finland. The ISI is an international scientific society whose elected membership unites statisticians from a variety of backgrounds and disciplines. IAMG has been affiliated with the ISI since its inception, but collaboration between the two organizations has dwindled over the past six years.

I was pleased to organize a meeting for the 1999 ISI session on behalf of IAMG. The title of our meeting was "Statistical Aspects of Physical and Environmental Science." Within this meeting, Ute C. Herzfeld presented "New Approaches to the Statistical Analysis of Satellite and Remote-Sensing Data," Graeme Bonham-Carter discussed his work (joint with Frits Agterberg) on "Arc-WofE: a GIS Tool for Statistical Integration of Mineral Exploration Datasets," and Paul Switzer spoke on "Modeling Indoor Air Pollution Using Superposition." Frits Agterberg highlighted many more topics in mathematical geology in his discussion. We were all very glad to have this opportunity to represent the IAMG.

The 53rd Session of the ISI session will be August, 22-29, 2001 in Seoul, Republic of Korea. I have contacted session organizers to make sure they know that IAMG has been invited to previous sessions and to express our interest in a future invitation. In addition, the statistical society, Environmetrics, has expressed an interest in collaborating with IAMG on sessions of mutual interest. I encourage the new officers of the IAMG to continue to pursue and foster these collaborations. Perhaps IAMG can begin by extending an invitation to a statistical organization for a session of interest to IAMG members at our own annual meetings.

On a more retrospective note, my term as IAMG Vice president is drawing to a close. I have enjoyed this role tremendously. I've learned to value the organization and its people even more, and I am sincerely grateful for the opportunity to serve our organization. I have enjoyed working with the Council and I am glad for the opportunity

to meet many more IAMG members who help to make our organization the success that it is. Thanks to all of you for your support!

2.3. Treasurer's Report

Treasurer Dan Tetzlaff presented.

1.4. Secretary General's Report

During my tenure, I have been involved in activities expected of a Secretary General. I have set up agendas for Council meetings, and have written and distributed minutes of the meetings to the Council members. I also established the agenda and wrote minutes for the Ninth General Assembly in Ischia.

A large responsibility is writing an annual report to the IUGS. Highlights in the reports of our past four years are presentation of the three Annual Meetings: IAMG'97, IAMG'98, and IAMG'99. IAMG also supported fifteen other meetings:

- Workshop on Advances in Quantitative Stratigraphy, Xian, China, August 1996.
- Computerized Modeling of Sedimentary Systems, Guestrow, Germany, October 1996.
- Data Analysis and Computer Technology and their Application for Geochemical and Geoenvironmental Research, Lviv, Ukraine, October 1996.
- Geologische Vereinigung, Juelich, Germany, February 1997.
- Mining Pribram Symposium and Sixth International Symposium on the Application of Mathematical Methods and Computers in Mining, Geology, and Metallurgy, Prague, Czech Republic, October 1997.
- IAMG/ASA Session, Joint Statistical Meetings, Dallas, Texas, August 1998.
- NATO Advanced Study Institute on "Deposit and Geoenvironmental Models for Resource Exploitation and Environmental Security", Matrahaza, Hungary, September 1998.
- Fourth International Biennial Symposium "Application of Mathematical Methods and Computer Technology in Geochemistry and Environmental Protection", Kiev, Ukraine, September 1998.
- 52nd Biennial Session of International Statistical Institute, program on "Statistical aspects of the physical and environmental sciences", Helsinki, Finland, August 10 - 18, 1999.
- Image and analysis and morphometry of geological objects: From fossils to rock-forming features, Dijon, France, September 6 - 9, 1999.
- Mining Pribram Symposium: Mathematical methods in geology, Prague, Czech Republic, October 4 - 8, 1999.
- Third Joint AMGP and AAPG International Conference, Veracruz, Mexico, October 10 - 13, 1999.
- Geostats-UK'99, Leicester, United Kingdom, November 22, 1999.
- Oklahoma Geological Survey and others, "Petroleum systems of sedimentary basins in the southern Midcontinent", Oklahoma City, March 28 - 29, 2000.

- Second International School of Fluids Geochemistry, Arezzo, Italy, September 5 - 8, 2000.

During 1998 and 2000, I coordinated amending the IAMG's Statutes and Bylaws. This consisted of developing the changes, wording the ballot, writing material showing the proposed changes, and mailing and counting ballots. This year I also coordinated the balloting for election of officers (results below).

This year I also participated in developing the questionnaire that was sent to all IMAG members. I also arranged for mailing.

Other activities included designing and ordering plaques that were presented to the award winners, and certificates for Best-Paper Awards.

3. COMMITTEE REPORTS

Reports from various IAMG Committees and members were presented.

3.1. Awards Committee (Vera Pawlowsky-Glahn, Chair)

The IAMG awards system has been significantly changed during recent years. The Eighth General Assembly of IAMG held in Beijing in 1996 increased the number of awards from two to four. The next year, a special commission created the Awards Committee and prepared the award descriptions, guidelines and lists of recipients, first approved by the IAMG Council in November 1997, modified and updated in May and July 1998, and finally ratified by the General Assembly held in Ischia, Italy, in October of 1998. They are accessible on the IAMG web site.

The members of the Awards Committee are Heinz Burger (Germany), John Cubbit (UK), John C. Davis (USA), John Harbaugh (USA) and Vera Pawlowsky-Glahn (Spain), chair. The committee has done its best for a timely call for nominations and selection processes according to all rules and regulations.

Because the Committee received a system behind schedule, for three years more than two awards were presented per year, as prescribed in the By-Laws. For the last time, four awards were presented at the IAMG Annual Meeting in Trondheim, Norway, August 1999. The Krumbein Medal for 1998 went to Graeme Bonham-Carter (Canada), elected from a field of 10 candidates; the 1998 Griffiths Award went to Margaret Armstrong (France), who had four competitors; the 1999 Chayes Prize went to Hugh Rollinson (United Kingdom) from a field of three nominees; and Pierre Goovaerts (USA) was the winner among four nominees for the 1999 Vistelius Award.

This year, for the first time, the selection and presentation of the awards proceeded exactly as established in the guidelines: winners of the 2000 William Christian Krumbein Medal and of the 2000 John Cedric Griffiths Award were selected during 2000 and presentations have been scheduled for the IGC meeting in Rio, August 2000. The

2000 Krumbein Medal went to Richard J. Howarth (UK), who was elected out of a field of 11 candidates, while the winner of the Griffiths Award, Lawrence J. Drew (USA), prevailed over four other nominees.

Calls for nominations for the 2001 Andrei Borisovitch Vistelius Award and the 2001 Felix Chayes Prize have already been posted in the IAMG Newsletter and in the web site.

Laudations for the winners are now regularly published in *Mathematical Geology* (Krumbein Medal and Vistelius Award) and in *Computers & Geosciences* (Griffiths Award and Chayes Prize), as well as in the IAMG web page. Awardees present keynote lectures either at the IAMG Conferences or at the IGC, with the Conference lecturers having their presentations published in the Conference Proceedings.

The great challenge for the oncoming years is to improve active support to the Committee by IAMG members to increase the number of candidates for each award. Large fields of deserving candidates are the best way to assure meritorious winners and increase the reputation of the awards.

3.2. Education Committee (John Tipper, Chair)

As in previous years, the principal activity of the IAMG Education Committee in 1999/2000 has been to continue to oversee the series "Mathematical Geology: Studies for Students" (SfS). And, as in previous years, it has not proved easy to obtain suitable papers for publication. Once again, the Committee would stress to potential authors of SfS articles that there is a considerable and very active interest among many journal editors in obtaining manuscripts on topics in mathematical geology. Surely it is better that those topics be dealt with in those journals by those who are supposedly specialists in those fields -- we mathematical geologists -- than by others whose expertise is, at best, secondhand? As Chairman of the Committee, I would encourage all potential authors either to contact me personally to obtain further information, or to look at the Committee's page on the IAMG web site.

An article for the series ('A six-step practical approach to semivariogram modeling', by Ricardo Olea) is now being reviewed by a journal; an article on shape analysis in paleontology is currently being prepared by Richard Reyment and Fred Bookstein; and an article on the analysis of repeated measures, by Richard Webster, is in the planning stage.

3.3. Membership Committee (Jan Harff, Chair)

3.4. Publications Committee (Frits Agterberg, Chair)

The Publications Committee has been in existence during the past three years. It is concerned with: (a) nominations of editors of our journals and monograph series; (b) quality and scope of our publications; (c) ways to promote our publications; (d) impact of electronic publications; (e) contract royalties and negotiations with our publishers. The members of the Publications Committee were Graeme Bonham-Carter (Editor-in-Chief, *Computers & Geosciences*), Jo Anne DeGraffenreid (Editor, IAMG Monograph Series), Michael Hohn (Editor-in-Chief, *Mathematical Geology*), Dick McCammon (retired during 1999), Dan Merriam (Editor-in-Chief, *Natural Resources Research*), Niichi Nishiwaki-Nakajima, John Tipper, and Frits Agterberg (Chair).

Matters dealt with during the past two years (since the last IAMG General Assembly) include:

- The Energy Minerals Division (EMD) of the American Association of Petroleum Geologists (AAPG) formally agreed to officially co-sponsor *Natural Resources Research*. The first issue of volume 8 (1999) under the new NRR masthead was distributed free of charge to all IAMG and AAPG/EMD Members.
- A new 10-year contract between the IAMG and Elsevier on publication of *Computers & Geosciences*, with terms similar to those in the previous contract, was signed by the IAMG President in 1999. An important modification is that IAMG will receive royalties on *Computers & Geosciences Online* once the publisher starts charging institutional subscribers for electronic services.
- Promotion of our publications included efforts to recruit new IAMG members. Current issues of our journals contain IAMG Membership application forms. Graeme Bonham-Carter, with the help of the Brochure Commission and many members, developed a new IAMG brochure of which 10,000 copies were printed.
- The 50% discount for student members subscribing to *Computers & Geosciences* established two years ago is bringing in new members. Similar arrangements have been proposed for *Mathematical Geology* and *Natural Resources Research* and may come about in the future.
- The Publications Committee nominated W.E. "Ed" Sharp for the position of new Deputy Editor of *Mathematical Geology*; this selection was approved by IAMG Council. Mike Hohn is planning to retire as Editor-in-Chief of *Mathematical Geology* and will be succeeded by Ed.
- The IAMG Monograph Series is undergoing revival. The new monograph (No. 6) entitled "Modern Spatiotemporal Geostatistics" by George Christakos was submitted by Jo Anne DeGraffenreid for publication by Oxford University Press during the fall of 2000.
- During 1999 Plenum, publisher of *Mathematical Geology* and *Natural Resources Research* was taken over by Kluwer. We are now dealing with Kluwer Academic /

Plenum Publishers. The change of management does not seem to have created problems for us. *Mathematical Geology* now has an online version; *NRR Online* is to follow.

- President Ricardo Olea drew attention to inconsistencies in our procedures to select Best Papers. This led to a revision of IAMG By-Laws No. 5 and 17 that recently was approved by the IAMG membership and awaiting final approval by the General Assembly at the 31st IGC. A new set of guidelines for selecting best papers in *Mathematical Geology* and *Computers & Geosciences* was approved by the IAMG Council. These guidelines, which are posted on the IAMG Web Site, were successfully employed for selecting Best Papers for 1999.
- The IAMG maintains official lists of Best Paper Award winners on its World Wide Web site. In the past, there were no Best Paper Award winners for *Mathematical Geology* in 1982 and for *Computers & Geosciences* in 1987. These gaps have been being erased from the record with the help of special committees appointed by the Editors-in-Chief.
- To the original list of topics for concern by the Publications Committee, another was added in 1998: adjudication in alleged plagiarism and other cases of copyright infringement. Two cases along these lines were described briefly under the heading "Copyright Alert" (IAMG Newsletter, Fall of 1998) and in a previous Association Announcement (*Mathematical Geology* 31/5, 1999, pp. 602-604). During 1999, documentation on a new case of alleged plagiarism was received. The evidence for this case was studied by a subcommittee consisting of John Tipper, Michael Hohn, and Frits Agterberg; a solution was found which was acceptable to the parties concerned.
- Steven Henley has volunteered to be guest editor of a special issue in one of our journals on research performed at the Institute of Mathematical Geology in St. Petersburg, Russia, originally established by Dr. Vistelius and currently headed by Dr. Dech.
- During 2000, members of the Publications Committee also were involved with other matters, including the status of the IAMG booth, ways to publish the keynote addresses of IAMG Award Winners, the composition of the Editorial Boards, and coordination of our activities with those of other IAMG committees and the IAMG Webmaster.

At the end of our term, I would like to thank the IAMG President and Council for their continuing support and the other members of the Publication Committee for their cooperation.

Individual Editor Reports follow.

***Computers & Geosciences* (Graeme Bonham-Carter, Editor-in-Chief)**

The style of the journal was changed, starting with the January 1999 issue, to facilitate standardization of Elsevier journal styles for production of online versions. In practice, the changes are not major, but involve (a) slightly different page size, (b) different running heads, (c) numbered sections, (d) changes to references, plus a number of less significant changes. There are still no page charges for colour if separations of sufficient quality are supplied.

There have been a number of changes to the editorial advisory board; see the editorial in 25(6).

Volume 24 (1998) had the normal 10 issues, contained a total of 101 papers (62 of them with links to code on the server), had 10 book reviews and one software review, and was 1031 printed pages long. The Online version is available to subscribers at <http://www.elsevier.nl/locate/cgonline>. Readers whose libraries subscribe to the journal via Science Direct see a slightly different version, although in Canada the access seems to be noticeably faster than using the URL shown in the previous sentence.

The Best Paper for 1998 was awarded to J.P.M. Syvitski, K.I. Skene, M.K. Nicholson, and M.D. Morehead for their paper "Plume1.1: Deposition of sediment from a fluvial plume" which appeared in 24(2), 159-171. The selection was made by the Editor-in-Chief and Associate Editors, coordinated by Doug Peters. The full list of Best Paper winners since the journal started (with corrections noted by Ricardo Olea) is available on the *Computers & Geosciences* section of the IAMG Home Page.

John Butler provided his ANON column (Another Node On the interNet) on a regular basis. John also guest edited 24(7), a special issue on "Teaching with Multimedia". A second special issue, guest edited by David Unwin, was entitled "Computers, Geoscience and Geocomputation", comprising papers from the conference on Geocomputation held in Leeds, U.K., in 1996.

Software reviews have been subsumed under Book and Software Reviews, under Reviews Editor Geoff Bohling. Production of a separate Software Reviews section has been dropped.

John Cubitt will be managing a new experimental Current Literature Survey that lists articles in other journals of potential interest to *C&G* readers. This Survey is included at the back of the issues in 2000, starting with 26(3).

Volume 25 contained 10 issues (1190 pages), comprising 101 papers, 13 book or software reviews, and 10 ANON columns. Sixty-three of the papers were linked to code on the IAMG server. There were three special issues: 25(1) was on "Systems Integration within the Geosciences", edited by Mark Gahegan (Geography, Penn State); 25(4) was an issue entitled "Shareware and Freeware in the Geosciences", edited by John Butler (Univ. of Houston) with a dedication to Dan Merriam by John Cubitt; 25(9) was entitled "Fractals and Multifractals", edited by Frits Agterberg and Qiuming Cheng.

Peter Henn, the Senior Science Editor at Elsevier (Oxford), who has been responsible for *C&G* almost since it started, has been reassigned to other duties. Peter was awarded an IAMG Certificate of Appreciation in recognition of his contribution to the Association, and a short tribute appears in 26(7) and IAMG Newsletter 60.

The Best Paper for 1987, not awarded previously because of an oversight, was awarded posthumously to Nicholas Rock for his paper "ROBUST: An interactive FORTRAN-77 package for exploratory data analysis using parametric, robust and nonparametric location and scale estimates, data transformations, normality tests and outlier assessment".

The first seven issues of Volume 26 (2000) contain 78 papers, nine reviews and seven ANON columns; 24 papers refer to code on the server. Three special issues were as follows: 26(1) was entitled "Geoscientific Visualization" edited by S. Fuhrmann, W. Kuhn and U. Streit; 26(4) was on "Geostatistics and Geospatial Techniques in Remote Sensing", edited by P.M. Atkinson and D.A. Quattrochi; 26(6) was titled "The Year 2000 Challenges" edited by John Butler.

A Supplementary issue, with the designation 26(3A), is entitled "Geoscience after IT-A View of the Present and Future Impact of Information Technology on Geoscience" by Vic Loudon. It will subsequently be rebound and sold by Elsevier separately as a book.

***Mathematical Geology* (Michael Ed. Hohn, Editor-in-Chief)**

This report covers the period 1998-2000, the period since the last General Assembly of the IAMG.

Timeliness. Publication of *Mathematical Geology* has been on time, appearing on or before the cover date. Although some reviewers remain slow in returning manuscripts, efficiency has been improved by contacting all potential reviewers first by e-mail, and obtaining their approval before sending a manuscript for review. The internet has been particularly helpful in locating potential reviewers and e-mail addresses.

Comparison with other journals does not show this journal to be abnormally slow in turnaround of manuscripts. The time from receipt of a manuscript to when the author is notified of the results of the reviews averaged four months for 1999; this includes the time required to line up reviewers, the time reviewers need to read and comment on the manuscript, and time I use to read the reviews and write a letter to the authors. In general, issues are sent to the publisher five to seven months before the cover date. Time from date of acceptance to the cover date at publication is about one year.

The publisher has received all issues for the current year, and there are enough accepted manuscripts for about half of next year.

Numbers of papers. In 1998 and 1999, the two most recent years with complete data, 73 and 72 manuscripts were received, respectively. This does generally not count papers intended for special issues. In 1998, 46 papers were accepted, 17 were rejected outright. Ten papers were returned for revision but never resubmitted. Most papers require some revision before acceptance; few papers are accepted outright with only minor format changes. In 1999, 42 papers were eventually accepted, 15 rejected outright, and 15 returned for revision but never resubmitted. Acceptance rates for 1998 and 1999 are thus 63 and 58%.

During the first six months of 2000, 36 papers were submitted for review, about the same rate as recent years.

The number of papers published has remained fairly steady over the past three years:

	1998	1999	2000
Papers	52	46	47
Book reviews	2	8	9
Letters to editor	4	1	3
Assoc. Announcements	1	6	1

In my 1998 report, I stated our goal of publishing an average of one book review per issue; we met this goal.

Mathematical Geology included two special issues in 1999 and one in 2000. To reduce the backlog and allow publication of more papers, authors are being asked to reduce the size of their manuscripts when they are clearly too long.

Best Papers. A priority over the past two years has been to bring the selection of Best Paper Awards up to date. The editorial board selected winners for 1995, 1996, 1997, 1998, and 1999.

Future. W. Edwin Sharp has come on board as Deputy Editor, with approval by the IAMG Council to become the next Editor-in-Chief. We expect a transition to take place in 2001, at which point I will have been Editor-in-Chief for four volumes. At that point, I will step down to Deputy Editor and serve in that capacity until a successor is appointed. This process should result in an efficient transition.

The current contract with Plenum will soon be expiring; the new IAMG officers and Publications Committee should be prepared for new contract negotiations. Because this is my final report to a General Assembly during my expected tenure in this position, I thank the IAMG for having me as Editor-in-Chief of this journal for the past three years. I have enjoyed the work and the challenges that came with the position, and look forward to a smooth transition to my successor.

Natural Resources Research (Daniel F. Merriam, Editor-in-Chief)

I took over editorship of *Nonrenewable Resources* in the fall of 1998 on the retirement of its founding editor, Richard B. McCammon. Of IAMG concern was the focus of the journal and its future. Richard had completed seven volumes of the neophyte quarterly journal, but subscriptions remained a problem. Although the journal was a scientific success, it was not an economic one. My charge was to change the focus of the journal to make it viable.

The first change in direction was a new title. After much search and deliberation the name *Natural Resources Research* was selected as title best conveying the journal's focus. The subject concentration was to be in all phases of natural resources: fuels, including oil and gas, coal, nuclear, and geothermal; metals such as copper, lead and zinc; the nonmetals of sand and gravel, gypsum, and uranium; and renewable resources such as wind, tides, and solar. Because the journal was sponsored by a geomathematical society, the quantitative aspects of exploring and exploiting natural resources was to be stressed. In short, *Natural Resources Research* publishes original papers concerned with the quantitative exploration, assessment, and exploitation of mineral resources interpreted in the broadest sense. A special emphasis also was to be placed on multidisciplinary and multinational papers.

IAMG sponsors three journals: *Mathematical Geology* (JMG) begun in 1969, *Computers & Geosciences* (C&G) in 1975, and *Natural Resources Research* (NRR) in 1992. The editors agreed on the subject differences between the journals as: JMG publishes mathematics as related to geological problems; C&G publishes information on computer algorithms and systems; and NRR concentrates on applications of quantitative techniques to locate and exploit mineral resources, e.g., case histories. In essence, NRR papers reflect the use of practical applications of mathematics and computer techniques.

It was immediately obvious that IAMG alone could not sustain three journals, even with different objectives and goals. I learned that the Energy Minerals Division of the American Association of Petroleum Geologists was considering starting a new journal for their organization. I immediately approached their officers with a proposal (approved by the IAMG Council) to cosponsor the journal; after a year of deliberation, they accepted our offer. Starting with volume 8, the AAPG/EMD and IAMG cosponsor NRR.

The cooperative agreement with AAPG/EMD is relatively simple. IAMG retains control, destiny, and all rights to the journal, and appoints the Editor-in-Chief, who will be responsible for production, scientific content, and contact with the publisher. The Deputy Editor will be a member of the AAPG/EMD and other editors will be appointed in collaboration with the AAPG/EMD. The IAMG will be the sole representative to Kluwer/Plenum for all financial commitments; if, and when, royalties are paid, AAPG/EMD shall receive 1/2 (one-half) of the proceeds. The AAPG/EMD shall have no financial responsibilities, but their members can subscribe to NRR for the same rate as IAMG members. AAPG/EMD members will not be required to subscribe to the journal as part of their membership. The agreement can be voided at any time starting with the

following year's production by either party (IAMG or AAPG/EMD) on written request. IAMG and AAPG/EMD gave Kluwer/Plenum permission to put NRR on-line with the proviso that any income from institutional on-line subscriptions shall be part of the cash receipts used in the calculation of royalties.

The first item of business for the new Editor-in-Chief was to appoint an editorial board for the new journal. I asked Frits Agterberg, John Cubitt, John Davis, Ghislain de Marsily, and John Harbaugh to serve on an Editorial Advisory Board to help formulate policy and guide direction of the journal. This group had experience with IAMG journals and Agterberg was chairman of the IAMG Publication Committee. Doug Peters, former President of EMD, agreed to serve as the Deputy Editor. I enlisted a group of 19 Assistant Editors with broad backgrounds in natural resources from 13 countries.

When I took over the editorship, there was no backlog of manuscripts. A quick canvas of known workers in the field of natural resources turned up enough papers for the first issue. The publisher agreed to print 2500 copies of the first issue, enough to distribute to all IAMG and EMD members and give away copies at several national and international meetings.

The flow of papers is still slow, but volume 8 (1999) has been completed and volume 9 (2000) is about to be: 9/1 is being printed; 9/2 has been page proofed; 9/3 has gone to press; and 9/4 is being accumulated. Forty-two papers were received in 1998 and 1999, 12 were rejected and 30 have been published or are being published. An average issue contains six papers. So far in 2000, 13 papers have been received; two have been rejected, eight have been accepted and are being revised, and three are in the review stage. It is anticipated that the submission of manuscripts will increase once the journal is recognized and known.

The first year (volume 8, 1999) of this endeavor was highly successful from a scientific standpoint. Papers on many different subjects relevant to quantitative aspects of mineral exploration and exploitation were published. Subjects ranged from petroleum to geothermal resources, basin modeling to mineral forecasting, from map comparison/integration to trend analysis, and from geochemistry to stratigraphy.

This first issue of volume 9 is representative of the new journal in the new millennium. The range of subject matter for the mineral resources includes natural gas hydrates, base-metal mineral exploration, geochemistry and geophysics, platinum mineralization, and geostatistical modeling. Note, too, the international flavor of the papers, with examples from Canada, India, Indonesia, Australia, South Africa, and France. Future issues promise to be equally interesting and rewarding as we explore other venues of mineral resources, such as water, geothermics, and basin analysis.

Promotion of NRR has been mostly the responsibility of the publisher, but both IAMG and EMD have made special appeals to members for papers and subscriptions. The journal has been prominently displayed at several U.S. national meetings (AAPG and GSA) and international meetings by IAMG, EMD, and Kluwer/Plenum.

Studies in Mathematical Geology (Jo Anne DeGraffenreid, Editor)

Since the IAMG General Assembly at the 30th (1996) IGC, the IAMG monograph series, "Studies in Mathematical Geology" (published by Oxford University Press) has been revived. At that time, the most recent IAMG monograph was No. 5, Computers in Geology: 25 Years of Progress, published in 1993 to commemorate the Association's Silver Anniversary.

In November 1997, Jo Anne DeGraffenreid was appointed SMG editor, and Thomas A. Jones and Heinz Burger agreed to serve as associate editors.

A letter of introduction was sent by the new SMG editor on 27 November 1997 to the Oxford University Press senior editor in charge of natural-science publications. The letter included an inquiry about whether a formal agreement between Oxford and the IAMG existed or would it be advisable to update the 14 October 1984 agreement between Oxford and the original SMG editor and associate editors; this agreement also named the then-IAMG Treasurer as recipient of royalties and semiannual statements of account. Because of Oxford's noncommittal response and the fact that succeeding IAMG Treasurers have been transacting business with Oxford for some time, the matter was not pursued further. According to Oxford, the 1984 letter is the only document in existence. This may be a topic that should be addressed by the incoming IAMG Council.

A new monograph by George Christakos with the working title "A View of Modern Geostatistics" was accepted for publication by Oxford University Press; the contract was finalized 5 October 1999. A completely reworked and expanded version of the monograph was sent (camera-ready) to Oxford on 3 April 2000; disk copies of the illustrations were sent at the request of Oxford on 12 April 2000. The 304-page volume is scheduled to appear in fall 2000 as IAMG Studies in Mathematical Geology No. 6, with the title, Modern Spatiotemporal Geostatistics.

As of 30 June 2000, Oxford reported the status of monographs in the IAMG series as follows:

- No. 1 - OUT OF PRINT (Use and Abuse of Statistical Methods in the Earth Sciences, William B. Size, Ed.)
- No. 2 - IN PRINT (20 copies available; Oil and Gas Forecasting: Reflections of a Petroleum Geologist, by Lawrence J. Drew)
- No. 3 - OUT OF STOCK (Geostatistical Glossary and Multilingual Dictionary, Ricardo A. Olea, Ed.)
- No. 4 - OUT OF PRINT (Techniques for Determining Probabilities of Geologic Events and Processes, Regina L. Hunter and C. John Mann, Eds.)
- No. 5 - OUT OF STOCK (Computers in Geology-25 Years of Progress, John C. Davis and Ute Christina Herzfeld, Eds.)

As of June 30, 2000, two manuscripts are in hand, one of which (proposed in January 1999; completed and submitted in May 2000) is undergoing review and will be

submitted for Oxford's approval in September or October 2000. The status of the second manuscript, received 26 October 1999, is unclear pending communication from the submitting author.

3.5. Environmental Group (Andrea Fabbri, Chair)

3.6. Newsletter Editor (Harald Poelchau)

During the last two years, four Newsletters (no. 57 to 60) have been compiled and sent out to the membership. Publication dates were November 1998, May 1999, November 1999, and June 2000. Sizes varied from 16 to 20 pages per issue. Usually about 700 copies were printed; those not mailed to members were used as advertising for IAMG at various conferences.

3.7. Webmaster (Eric Grunsky)

Activity

Access to <http://www.iamg.org> has leveled off since 1998. The average number of hits per month is around 20,000. Some statistics generated from the web site for the timeframe 21 July 1995 - 5 July 2000 follow:

Number of Successful Hits for Entire Site	626,096
Number of Page Views (Impressions)	303,563
Number of Document Views	301,561
Number of User Sessions	85,099
Average Number of Hits Per Day	340
Average Number of Page Views Per Day	164
Average Number of User Sessions Per Day	46
Average User Session Length	00:36:54
Number of Unique Users	35,976
Number of Users Who Visited Once	27,301
Number of Users Who Visited More Than Once	8,675

Access to the FTP site also shows a leveling off of downloading activity. Since March 1999, access to the programs has been around 3000 hits per month. The largest number of hits was for the month of December 1999, with more than 5000 downloads recorded. A graphic summary of ftp downloads is now posted on the IAMG web site.

Web site maintenance

Maintenance costs have been primarily for internet access and contract programming. In 1999 the web site was overhauled and reconfigured into a frames-based

format which has made for easier navigation on the web site. Sections have been added for: Guidelines and Procedures, IAMG awards, Information on IAMG meetings, Access to IAMG, Newsletters, and Individual links to IAMG journals. The computer purchased by the IAMG in 1997 is now being used as the host for the IAMG membership directory and a backup facility of the Ottawa host server. The computer purchased in 1999 is being used for web-site development.

ISI recognition of the IAMG web site

The Institute for Scientific Information (ISI) has recognized the IAMG web site and its contents as significant. On 24 March 2000, the following message was received:

You are publishing important, high-quality material on the Web. For this reason, ISI has selected your site (<http://www.iamg.org>) for inclusion in Current Web Contents, a new section of Current Contents Connect™ (CC Connect™). ISI editors -- following carefully structured evaluation criteria -- have visited your site, reviewed it, developed a standardized descriptive record, written an abstract and created a link from CC Connect to your site. CC Connect offers Web access to Current Contents, the ISI premier current awareness database that provides information in the fields of science, social science, technology, and the arts & humanities.

ISI is the company that produces the Science Citation Index and other journal indices. The IAMG has been recognized as providing important information about the organization and its associated journals.

Guidelines and procedures on the web site

During the past two years, the Council has established a number of guidelines and procedures that regulate and coordinate activities within the IAMG. These have been put on the IAMG web site and act as the rule book for how IAMG carries out its business.

IAMG Membership Directory on the web site

The IAMG now has an on-line membership directory accessible from the IAMG home page. The directory was developed to further communication between IAMG members. Access to the directory is restricted to current IAMG members only. There is no intention of providing information about members to any third parties.

The directory contains names, addresses, telephone numbers and e-mail addresses. At this time the directory is not complete and an effort is under way to make sure every member has a valid entry in the database. Updating will be done in August 2000. Members can request modifications to the information contained in the database.

In addition to furthering communication between members, the membership database provides IAMG a means for contacting members through the use of email in

order to advise members about upcoming meetings, newsletter releases and newsgroup discussions.

IAMG Newsletters available from web site

Production of the IAMG Newsletter is in Adobe Portable Document Format (pdf), so it can now be downloaded from the IAMG web site. In the future, the IAMG may want to consider making this the default means of obtaining the newsletter. This would result in production and postal cost savings for the IAMG. Members can be notified of the availability of newsletter through email announcements. Members without access to email notification may choose to still obtain the printed copy of the newsletter.

Mirror site

During 1999, offers for establishing mirror sites were obtained from Spain, Japan and China. At this time, none of the sites is operational. Development of mirror sites for the IAMG web site has been problematic. To overcome these problems, a mirror site will be established at the Alberta Geological Survey to provide necessary files and scheduling for the proposed mirror sites. The Webmaster will maintain this mirror site. This service will be implemented sometime between September and November 2000.

***Computers & Geosciences* Silver CD Project**

The *Computers & Geosciences* Silver CD project is nearing completion. All program code has been scanned and pdf files have been created for each program from Volumes 1-22. If program code has been made available by the authors, the pdf files have been replaced by zip or tar files. Volumes 23-26 have program code provided by the authors. The CD will contain a complete record of all computer programs submitted to the journal. When complete, the CD will contain a searchable index based on keywords provided by a GEOREF citation for each paper. The completion date is expected to be September 2000.

Planned Developments

The web site is playing an increasingly important role for activities within the IAMG. As a repository for procedures, guidelines and journal information, it is becoming the on-line record of the association activities. Further developments are planned to enhance the web site and make it a useful service for IAMG members. Suggestions from IAMG members are welcomed.

At the request of Vera Pawlowsky, the establishment of a newsgroup for the IAMG was investigated. The purpose of a newsgroup would allow IAMG members to start discussions on current topics of interests to stimulate discussion and the development of ideas. The newsgroup will be established in the latter part of 2000. IAMG members will be notified of the installation of the newsgroup in the next Newsletter or by email.

A site map is a planned addition for the future. The site map will allow users to view the entire structure of the web site and go directly to web pages of interest.

4. AMENDMENTS TO BY-LAWS

The Statutes and amended Bylaws are in the Appendix.

5. ELECTION OF 2000 - 2004 COUNCIL

6. ADJOURNMENT

The General Assembly meeting was adjourned at x:xx p.m.

August 2000
Secretary General IAMG

Table 1.

INTERNATIONAL ASSOCIATION FOR
MATHEMATICAL GEOLOGY
BALANCE SHEETS – CASH BASIS