

EURO Bulletin

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From Tuula Kinnunen, EURO Vice-President 2

EURO Working Groups

F For smaller groups of researchers interested in a specific OR topic EURO provides an organizational framework in the form of EURO Working Groups (EWGs). These groups are a very important part of EURO. They represent in its best form continuity in research in EURO's activities. Active EWGs have a meeting at least once a year where the members exchange ideas, experiences and research results and support each

other in the research work. Cooperation continuing for several years, even decades has also strengthened personal relations of the group members making the atmosphere in the group open and friendly. In addition to their annual meetings the groups have also other ways of working; for example they organize sessions in conferences, publish special issues of the European Journal of Operational Research or other OR-related journals and organize conferences. In the coming EURO XIV conference in Israel the audience will have an excellent opportunity to get acquainted with areas of interest of the EWGs and the past, presence and future of the respective research fields. In addition to the large number of presentations by individual members of the groups there will be semi-plenary presentation on each topic.

During 20 years that EURO has existed there has also been EURO Working Groups. Four of the groups founded in

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1975 are still active. Some of the groups founded over the years have faded away, but new ones have also come into existence. The family of EWGs grew with two members in January this year when the Executive Committee of EURO gave the EURO label to two groups: "European Group Decision and Negotiation Support Working Group" and "MODEST - Modelling of Economies and Societies in Transition". Thus the following active EURO Working Groups exist (in the order of establishment, with the year in brackets):

1. **Multicriteria Aid for Decisions** (1975)
2. **Fuzzy Sets / IFSA European Chapter** (1975)
3. **ORAHs - OR Applied to Health Services** (1975)
4. **EUROBANKING special interest group** (1975)
5. **Locational Analysis** (1984)
6. **ESIGMA: EURO Special Interest Group on Multicriteria Analysis** (1985)
7. **Project Management and Scheduling** (1986)
8. **Financial Modelling** (1986)
9. **ECCO: European Chapter on Combinatorial Optimization** (1987)
10. **DSS - Decision Support Systems**

(1989)

11. **Transportation** (1991)
12. **Information Systems** (1991)
13. **ORNETWORK - EURO's network for practitioners** (1993)
14. **European Group Decision and Negotiation Support Working Group** (1995)
15. **MODEST: Modelling of Economies and Societies in Transition** (1995)

More information on these EWGs can be found on the following pages. People who want to join a group or get more information about it are advised to contact either the coordinator of the group or the second vice-president of EURO.

What is required of a group that wants to become a EURO Working Group? First of all a group of people interested in cooperation on a specific topic of OR or in a field of OR applications is needed. In order to have an international, diversified EURO Working Group the group also has to meet the following principles:

1. The EWGs should as far as possible bring together people with different professional backgrounds (industry, university, etc.).
2. The group should be interna-

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tional. This requirement is met if at least 4, but possibly 5 or 6 nations are represented at each meeting and if the meetings do not take place too often in the same country.

3. Any group should be open to any individual member of any EURO member society. In some exceptional case also persons that are not members of a national OR society can be accepted. The applications are taken up by EURO Executive Committee who decides whether the criteria above have been met and whether the group can be granted the EURO Working Group status.

Becoming a EURO Working Group brings duties and advantages to the group. One of the duties is that the EWGs have to report yearly on their activities to EURO. One of the advantages is that group obtains financial support from EURO. Financial support can be granted e.g. for printing costs of common stationery, for administrative costs in the establishment of a new EWG and occasionally for meeting expenses, such as those of guest speakers or for some specific colloquium or seminar. The Council of EURO has also given grants to support the participation of group members who are coming from Eastern or Southeast Europe or Eastern Central Europe and

who are presenting a paper in a group meeting. Another advantage is that EURO K can provide time and space for the meetings of the EWGs and the meetings can be set within the framework of the conference itself. Nowadays several EWGs organize their meetings on the day(s) before a EURO K conference starts, or on the day after it finishes. EURO also supports EWGs by offering an opportunity to use the EURO Bulletin as the group's newsletter.

More details on the organization and activities of EWGs are stated in the charter of the EURO Working Groups.

More information about Working Groups can be obtained from EURO. The EURO-officer in charge of Working Groups is the second vice-president: Lic. Sc. (Econ.) Tuula Kinnunen, Turku School of Economics and Business Administration, Rehtorinpellonkatu 3, SF-20500 Turku, Finland. Tel.: (358) (21) 63 83 304, fax: (358) (21) 63 83 302, telex: 62310 tkkk sf, e-mail: Tuula.Kinnunen@abo.fi.

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Multicriteria Aid for Decisions

COORDINATOR: Prof. Bernard Roy, LAMSADE, Université de Paris-Dauphine, Place du Maréchal de Lattre de Tassigny, F-75775 Paris Cédex 16, France. Tel.: (33) (1) 44 05 42 87, fax: (33) (1) 44 05 40 91, e-mail: roy@lamsade.dauphine.fr.

PURPOSE AND HISTORY: Multicriteria decision aid is an important branch of Operational Research. Beyond the exchanges and meetings which already exist by means of the international conferences and the publications in the scientific journals, the objectives of the working group are the following:

- to contribute to develop an original way of thinking, at a European level, in the field of multicriteria aid for decisions;
- to allow each member of the group to present his research, submit those to the critical discussion of the group, to present open problems;
- to keep a continuity in the exchanges and the work from one meeting to another;
- to keep the climate of a working group and not to transform the meeting in a small congress.

The working group was created at EURO I (Brussels, 1975). Since that time, two meetings are held each year, in Spring and Autumn. The 40 meetings have been or-

ganized by 14 different countries.

NUMBER OF MEMBERS: 283. In 1975, the group consisted of 29 members divided into 5 different countries. Among the present members, 42 were already members in 1980. At this period, 23 countries were represented. During these last years, each meeting induces 5 to 20 new members (with an average of 13). These figures show how the group is alive, to the biological sense of the term.

NEWSLETTER: 2 issues per year. Editor: João Climaco, INESC, Rua Antero de Quental 231 cv, P-3000 Coimbra, Portugal.

ACTIVITIES 1994:

- the 39th meeting: Poznan, Poland, April 7-8, 1994. Organizers: Roman Slowinski, Jan Weglarz, Piotr Czyzak, Andrzej Jaskiewicz, Institut d'Informatique, Université Polytechnique de Poznan, 60-965 Poznan, Poland.
- the 40th meeting (and 20th Anniversary): Paris and Bordeaux, France, October 6-7, 1994. Organizers: Olivier Lavialle (Ministère de l'Agriculture, ENITA de Bordeaux, 1 cours du Général de Gaulle, B.P. 201, 33175 Gradignan Cedex, France), Bernard Roy (LAMSADE, Université Paris-Dauphine, Place du Maréchal De Lattre de Tassigny, 75775 Paris Cedex 16, France) and Claude Vidal (Sous-Directeur, Ministère de l'Agriculture et de la Pêche, Service Central des Enquêtes et Etudes Statistiques, 4 avenue de Saint-Mandé, 75570 Paris Cedex 12, France).

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FUTURE PLANNED ACTIVITIES:

- the 41st meeting: Lausanne, Switzerland, March 16-17, 1995. Organizers: Lucien Y. Maestre, Jacques Pictet, Ecole Polytechnique Fédérale de Lausanne, Département de Génie Rural, Institut de Génie de l'Environnement, GR-Ecublens, 1050 Lausanne, Switzerland.
- the 42nd meeting: Namur, Belgium, October 5-6 or October 12-13, 1995. Organizer: Jean Fichet, Facultés Universitaires Notre-Dame de la Paix, Institut d'Informatique, Rue Grandgagnage 21, 5000 Namur, Belgium.

Fuzzy Sets / IFSA European Chapter

COORDINATOR: Dr. Hans Hellendoorn, Siemens AG, Dept. ZFE T SN 4, D-81730 Munich, Germany. E-mail: hah@zfe.siemens.de.

PURPOSE AND HISTORY: This working group was formed at the EURO I Congress in Brussels in 1975. The initiator and first chairman of the group was Prof. H. Zimmermann of RTWH, Aachen, Germany. The organization of the group, the forms its activities have taken, and the vitality and activity of the group are to a great extent due to his efforts.

The second chairman, Prof. Christer Carlsson of Åbo Akademi University, Finland, was acting since 1979 until 1986.

During the First IFSA (International Fuzzy Systems Association) Congress in Mallorca on July, 1-6, 1985, with due permission of the EURO Council the working group constituted itself as the European chapter of IFSA. Prof. Carlsson was elected as the first president of the European Chapter, with Prof. M. Roubens the president-elect, Prof. P. Smets treasurer, Prof. U. Hohle secretary and Dr. D. Dubois and A. Straszak members at large. Prof. Roubens served as the president from 1986 until 1993.

The purpose of the IFSA-EC is to communicate and to promote knowledge of the theory of Fuzzy Sets and related areas and their applications.

In order to realize the objectives the IFSA-EC publishes Newsletters and Bulletins, organizes workshops and symposia, establishes sub-chapters and sponsors such other activities consistent with the objectives as may be directed by the Board.

NUMBER OF MEMBERS: 108.

NEWSLETTER: The French bulletin BUSEFAL is used as a forum for newsletters to the members, and members have been encouraged to submit working papers to BUSEFAL. The group supports the Fuzzy Sets and Systems journal edited by North-Holland.

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ACTIVITIES 1994:

- Organization of a plenary session at the EUFIT 94 conference.
- Preparation of an overview of activities in the area of fuzzy in Europe.

FUTURE PLANNED ACTIVITIES:

- Distribution of the overview and iterations with fuzzy experts in Europe.
- Presentation of the European Chapter at the EURO XIV.
- Organization of invited sessions at the EUFIT 95.

ORAHs - OR Applied to Health Services

COORDINATOR: Dr. David Clayden, BIOMED Project Leader, LRF Centre for Clinical Epidemiology, University of Leeds, 17, Springfield Mount, West Yorkshire LS1 9NG, United Kingdom. Tel.: +1132 44 35 17, fax: +1132 42 60 65, E-mail: A.D.Clayden@leeds.ac.uk.

SECRETARY: Dr. Marek Lubicz, Institute of Organisation and Management, Technical University Wroclaw, Wybrzeze Wyspianskiego 27, 50-370 Wroclaw, Poland. Tel.: (48) (71) 202864, fax: (48) (71) 20 34 32 or 22 36 64.

PURPOSE AND HISTORY: The decision to

set up the Health Working Group was taken at EURO I, Brussels, January 1975, making this group one of the first WGs established by EURO. The first meeting of the group took place in September 1975 in Exeter, UK and meetings have been taking place in different European countries every summer since then.

The aims of the group were restated at our 1991 meeting to be:

1. To improve co-operation and communication, and to encourage and support inspiration by group members.
2. To enable and support inter-disciplinary work on European health care issues.
3. To examine European health care systems using rational and systematic methods.
4. To encourage bilateral contacts between members throughout each year.

The title of the group "Operational Research Applied to Health Services" reflects the premise that the major challenge for OR scientists currently working in the health field lies not in developing new and/or more sophisticated techniques, but in using what expertise they currently possess to make more of an impact on the delivery of healthcare.

The idea is to provide a professional network, where the emphasis is on the exchange of professional knowledge by establishing social relations. To achieve this end, the size of the group is kept relatively

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small, continuity of the group is regarded as highly valuable and the social programme of the meetings plays an important part.

NUMBER OF MEMBERS: 112 members are now on the register from 22 countries (mostly European).

NEWSLETTER: No newsletter in 1994, one newsletter in 1995.

ACTIVITIES 1994: The 20th Annual meeting of the WG took place in Chania, Crete during July 31st to August 5th, 1994. The theme of the meeting was Decision Support, and twenty five members from twelve countries attended and presented papers. It was felt to be a successful and enjoyable meeting, and our hosts, the Technical University of Crete, were warmly thanked for their support of the meeting. It is hoped that some of the papers presented will appear in a Feature Issue of EJOR.

FUTURE PLANNED ACTIVITIES: The meeting this year will be in Maastricht, Netherlands from 23rd to 28th July 1995. The theme is 'Managing Healthcare Under Resource Constraints'. Further information: Mrs. Anja Kirkels, Eindhoven University of Technology, Graduate School of Engineering and Management Science, P.O.Box 513, 5600 MB Eindhoven, The Netherlands. Tel.: (31) (40) 47 22 30, Fax: (31) (40) 46 45 96. Papers presented will be published in book form.

- Members of the Working Group will also

be presenting a 'Health Stream' at EURO XIV in Jerusalem in July 1995.

EUROBANKING special interest group

COORDINATOR: Mr. Fred Ridgeway, Head of Management Services, Bank of Ireland, Head Office, Lower Baggot St, Dublin 2, Ireland. Tel.: (353) (1) 66 15 933, Fax: (353) (1) 66 15 473, e-mail: fridgeway@iol.ie.

PURPOSE AND HISTORY: The European Working Group on EUROBANKING, Operational Research in Banking, was set up in Brussels in January 1975 at the EURO I Conference sponsored by the International Federation of Operational Research Societies.

The purpose of the group is for OR practitioners to exchange and stimulate ideas about the techniques, experience, philosophy and application of operational research in banking. A secondary objective is to project operational research to bank management.

The group has members from virtually all Western European countries and the total membership is over one hundred. Membership is open to all those employed by banks in operational research or similar departments. Membership is at present free to all members of National European Operational Research Societies.

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There is a National Co-ordinator for each country represented in the group. Normally National Co-ordinators meet with the Chairman and Secretary twice a year as the Executive Committee. The role of the National Co-ordinator is a contact point, co-ordinator of views and representative of his country.

NUMBER OF MEMBERS: Over 100.

ACTIVITIES 1994: Meeting in Swindon, England, May 17-20, 1994. Host: Nationwide Building Society.

FUTURE PLANNED ACTIVITIES: Meeting in Stockholm, Sweden, June 12-14, 1995. Host: Arsenalen/S-E Banken. Chairman of the meeting: Hans Paulsson, Arsenalen/S-E Banken, Box 70346, S-10723, Stockholm, Sweden. As usual, the meeting will be open to either those employed or sponsored by banks and similar financial institutions.

Locational Analysis

COORDINATOR : Prof. Frank Plastria, Center for Industrial Location, Vrije Universiteit Brussel, Pleinlaan 2, B-1050 Brussels, Belgium. Tel.: (32) (2) 62 93 609, Fax: (32) (2) 62 93 645, E-mail: faplastr@vub.ac.be.

PURPOSE AND HISTORY: The decision to set up a Working Group on the field of Locational Analysis has been taken during the First EURO Summer Institute (Brussels, July 1984) in order to provide a network of people working together and to keep a continuity in the exchanges. So, the major goal of the WG is to stimulate the exchange of information and research; continuity of the group is regarded to be of main importance, and friendship among members plays an important role. The group holds yearly meetings organized by one of its members. It must be pointed out that the WG is not exclusive. Anybody interested in presenting his/her work, participating in the discussions, or more simply learning and/or consulting about the subject of locational analysis may join the group; his/her participation will be greatly appreciated. Either theoretical contribution (concepts, methods,...) or applied research, presentation of software, are welcome. Communications, discussions or surveys on new applications, open problems, connections between the field of location theory and related areas (location-routing problems, mathematical programming, multicriteria analysis, cluster analysis, approximation theory, computational geometry,...) are of interest.

NUMBER OF MEMBERS: 85

NEWSLETTER: The EURO Bulletin is used occasionally as a newsletter. An E-MAIL DISCUSSION GROUP was set up in 1994.

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Any message sent to *ewgla@upf.es* will be automatically redistributed to all members on the list. Any changes to this list such as new members wishing to be on the list, changes in e-mail address and (not too quick) cancellation of membership in the list should be sent to *ewgla-admin@upf.es*. These messages will be handled and acted upon separately and not distributed. I hope this new instrument of our group will enhance the already quite intensive cooperation between EWGLA members. At the same time I hope this will stimulate those members who are not yet familiar with the fantastic communication medium of e-mail, to start using it. The main idea is that we remain in regular contact about current research in and news related to our field. Nothing is more stimulating than (almost) direct and instant contact with fellow researchers. Let us know for example that a working paper has been written and where it is available, that some paper was (finally) published (along with the full reference, please). Call for help or ideas on a particular topic when you start up or are consulted on something new. If you have obtained some relevant information that is potentially of interest to the other members, let them know. At the other hand do not overload your fellow researchers with bulk. This seems to be the main problem of wider networks as the Internet. Receiving daily huge quantities of totally uninteresting material is discouraging, and quickly leads to cancellation by many members. Also do not use this forum for personal messages :

send these directly to the person(s) involved.

ACTIVITIES 1994 : The seventh meeting of the group was held in Brussels, Belgium, on 9-11 May 1994 at the Vrije Universiteit Brussel. It turned out to be a productive conference, appreciated by all 38 participants. See report in EURO Bulletin 3.2. Proceedings of this meeting have been published later this year as Issue 7 of the "Studies in Locational Analysis", edited by Brian Boffey and John Karkazis at the Department of Business Administration, University of the Aegean, Chios 82100, Greece.

FUTURE PLANNED ACTIVITIES :

- 12th EURO Summer Institute - ESI X11 on Locational Analysis, June 17-30, 1995, see announcement in EURO Bulletin 3.3.
- Eighth Meeting of the Group, Lambrecht, 24-28 September 1995. Contact address : Prof. Dr. H.W. Hamacher, FB Mathematik, Universitaet Kaiserslautern, Postfach 3049, 67653, Kaiserslautern, Germany, E-mail: *ewgla8@mathematik.uni-kl.de*. See first announcement in EURO Bulletin 3.4.

ESIGMA - EURO Special Interest Group on Multicriteria Analysis

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COORDINATOR: Prof. Carlos A. Bana e Costa, CESUR - IST, Av. Rovisco Pais, P-1096 Lisboa Codex, Portugal. Tel. (351) (1) 80 95 80 or (351) (1) 80 97 05, fax: (351) (1) 80 98 84. (Carlos A. Bana e Costa and José F. Rafael)
9th Glasgow, Scotland, July 23, 1994 (Valerie Belton)

PURPOSE AND HISTORY: At the end of the Second EURO Summer Institute (Brussels, July 1985) devoted to Multicriteria Analysis, the participants expressed a strong interest in continuing to work together. This was the result of three weeks of fruitful and friendly collaboration. So, the idea was born to create a new working group on Multicriteria Analysis. Since then, our working group meets on either the day before, or the day after, the annual EURO Conference. The following is the full list of meetings of ESIGMA and the respective organizers:

- 1st Lisbon, Portugal, September 19-20, 1986 (Carlos A. Bana e Costa)
- 2nd Brussels, Belgium, March 25-26, 1987 (Philippe Vincke)
- 3rd Paris, France, July 6-8, 1988 (Denis Bouyssou and Daniel Vanderpooten)
- 4th Belgrade, Yugoslavia, June 25-26, 1989 (Serafim Opricovic, Djura Kutlace, and Olga Memedovic)
- 5th Athens, Greece, June 24, 1990 (Denis Yannacopoulos)
- 6th Aachen, Germany, July 16, 1991 (Brigitte Werners)
- 7th Helsinki, Finland, June 28, 1992 (Pekka Salminen and Mari Pöyhönen)
- 8th Lisbon, Portugal, July 11, 1993

Normal communications are not accepted in the ESIGMA meetings, for they can be presented in Congresses or in the meetings of the "Multicriteria Aid for Decision" Working Group. The programme of an ESIGMA meeting integrates both "Tutorial Sessions" and "Oriented Discussion Sessions". In Tutorial Sessions, invited prominent researchers are invited to present their research and methodologies, followed by discussion. On other hand, Oriented Discussion Sessions are devoted to the discussion of specific subjects, oriented by one or two members of the group.

The following scientists have already been invited: Bernard Roy (Lisbon), Tom Saaty (Hagen), Ralph L. Keeney (Helsinki), Detlof Von Winterfeldt, Pekka Korhonen, Denis Bouyssou (Lisbon) and Colin Eden, John Friend (Glasgow). Examples of subjects already discussed in Oriented Discussion Session are: "The concept of weight" (Aachen), "What is a criterion?" (Athens), "Real applications" (Lisbon), "A Manifesto for a new MCDA Era" (Glasgow), etc.

NUMBER OF MEMBERS: 226

NEWSLETTER: 2 issues per year. Editor: P. Vincke, Université Libre de Bruxelles, C.P.210, Bld. du Triomphe, B-1050 Brussels, Belgium.

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ACTIVITIES 1994: The 9th Meeting of ESIGMA was held at the University of Strathclyde, Glasgow, U.K., July 23, 1994. The meeting was organized by Valerie Belton and there were 37 participants from 15 countries in the meeting. During the meeting, it was approved the new designation of ESIGMA: *Euro Special Interest Group on Multicriteria Analysis* (former EURO Summer Institute Group on Multicriteria Analysis). The programme included:

- brief presentations of SODA (Colin Eden) and Strategic Choice (John Friend),
- workshops using SODA and Strategic Choice,
- feedback and discussion of workshop experiences,
- discussion of Manifesto for a New Era of MCDA proposed by Denis Bouys-sou, Patrice Perny, Marc Pirlot, Alexis Tsoukis and Philippe Vincke, and
- a visit to the Glengoyne Distillery, nestling at the foot of Campsie Hills, followed by dinner in the Startblane Country Club.

FUTURE PLANNED ACTIVITIES: The 10th ESIGMA Meeting, Jerusalem, Israel, on Friday July 7, 1995, after the EURO XIV Conference. Organizers: Zilla Sinuany-Stern and Lea Friedman.

Project Management

and Scheduling

COORDINATOR: Prof. Luis Valadares Tavares, CESUR-IST, Av. Rovisco Pais, P-1096 Lisbon, Portugal. Tel.: (351) (1) 80 97 05 or (351) (1) 80 95 80, fax: (351) (1) 80 98 84, telex: 63423 ISTUTL-P.

PURPOSE AND HISTORY: The EURO Working Group on Project Management and Scheduling has been established by Prof. L. Tavares and J. Weglarz during the EURO VIII conference, Lisbon, September 1986. It was decided to organize a workshop every two years.

Gathering most promising theoretical and applied advances in Project Management and Scheduling to assess the state of the art of this field and its potential to support Management systems is the objective of these workshops.

The first workshop was held in Lisbon in July 1988, organized by L. Tavares. It gathered sixty participants from 16 countries. A special issue on Project Management and Scheduling was published by EJOR including selected papers from this Workshop (November, 1990). The second workshop was organized by J. Carlier in Compiègne, France in 1990. The third workshop was organized by Professor Carlo Vercellis in Como, Italy in 1992. The fourth workshop took place in Leuven, Belgium in 1994 and was organized by Professor Willy Herroelen.

NUMBER OF MEMBERS: 150.

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ACTIVITIES 1994:

- The 4th International Workshop on Project Management and Scheduling was held in Leuven, Belgium, on July 12-15, 1994.
- Another important activity in 1994 was the publication of a special issue of EJOR with a selection of papers presented at the 3rd Workshop held in Como, Italy, 1992.

FUTURE PLANNED ACTIVITIES:

- The group is preparing special sessions for the EURO Conference in Israel, 1995, and for the IFORS Conference in Vancouver, 1996.
- The 5th Workshop will be held in Poznan, Poland in 1996.

Financial Modelling

COORDINATOR: Prof. Dr. Jaap Spronk, Erasmus University Rotterdam, Department of Finance, P.O. Box 1738, NL-3000 DR Rotterdam, The Netherlands. Tel.: (31) (10) 40 81 282, fax: (31) (10) 45 26 399, e-mail: spronk@finbel.few.eur.nl.

PURPOSE AND HISTORY: The EURO Working Group on Financial Modelling was founded in September 1986 in Lisbon. The primary field of interest for the working group can be described as "financial models that help to solve problems faced by

financial managers in the firm". From this the following objectives of the working group are distinguished:

- providing an international forum for exchange of information and experience on financial modelling;
- encouraging research in financial modelling (new techniques, methodologies, empirical studies, software, etc.);
- stimulating and strengthening the interaction between financial economic theory and the practice of financial decision making;
- cooperating and exchanging information with other universities and financial institutions throughout Europe.

The meetings of the Working Group are organized twice a year, in April and in November. Earlier meetings were held in Belgium, Curaçao, Cyprus, Finland, Italy, the Netherlands, United Kingdom, Germany and Hungary. The meetings are attended by 80-100 members on average, most of them scientists but also representatives from the financial institutions, and are usually organized on Thursday, Friday and Saturday morning. The organizers are expected to schedule three types of sessions: a round table session with invited speaker(s), regular sessions with the presentation of refereed papers and balloon sessions in which unrefereed papers, new topics and "loose" ideas can be discussed.

NUMBER OF MEMBERS: 242

NEWSLETTER: The newsletter of the

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working group, called NEWSFLOW, is published twice a year, one month before each meeting. It contains general information about the Working Group, information about the next meeting(s), abstracts of papers of the next meeting, letters from readers, announcements of financial seminars, calls for papers, a list of working papers, etc.

ACTIVITIES 1994: The May meeting (Rotterdam, The Netherlands, May 26-28, 1994) was organized by Aloy Soppe, Jaap Spronk, Erik Vermeulen and Ton Vorst. The November meeting was organized by professor Sandór Komlósi (Pécs, Hungary).

FUTURE PLANNED ACTIVITIES: In 1995 meetings will be organised by Marida Bertocchi in Bergamo, Italy, June 1-3, and by Andrej Cibej in Slovenia in November.

ECCO - European Chapter on Combinatorial Optimization

COORDINATOR: Prof. Catherine Roucairol, Université de Versailles & INRIA, 45 Avenue des Etats Unis, F-78000 Versailles, France. Tel.: (33) (1) 39 25 40 88, fax: (33) (1) 39 25 20 57, e-mail: Catherine.Roucairol@inria.fr.

BOARD: Prof. Dominique De Werra, EPFL Lausanne, Switzerland;

Prof. Paolo Toth, DEIS, University of Bologna, Bologna, Italy.

PURPOSE AND HISTORY: The EURO Working Group on Combinatorial Optimization, ECCO (European Chapter on Combinatorial Optimization) was created in 1987 by C. Roucairol, D. de Werra and A. Rinnooy Kan. This group provides an excellent opportunity to discuss recent and important issues in Combinatorial Optimization and its applications with European combinatorialists; most European countries are represented.

The meetings have a regular basis (once a year during Spring) and must nicely combine scientific works and exchange of new ideas with an exciting atmosphere like Paris May 88, Venice June 89, Barcelona May 90, Dubrovnik May 91 (cancelled), Graz 92, Bruxelles 93 and Milan 94. An abstract booklet is distributed to the participants at each meeting and additional copies to all members after the meeting.

NUMBER OF MEMBERS: Approximately 350/ 100 at each meeting.

ACTIVITIES 1994: The 7th meeting, Milan, Italy, February 21-23, 1994. Organizer: Prof. Francesco Maffioli and Prof. Anna Sciomachen, Istituto di Matematica Finanziaria, Università degli Studi di Genova.

FUTURE PLANNED ACTIVITIES: The 8th meeting, Poznan, Poland, May 8-10, 1995.

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Organizer: Prof. Jacek Blazewicz and Prof. Jan Weglarz, Poznan University of Technology, ul. Piotrowo 3A, 60-965 Poznan, Poland, fax: (48) (61) 77 15 25, e-mail: ECCO@pozn.v.tup.edu.pl.

DSS - Decision Support Systems

COORDINATOR: Prof. Tawfik Jelassi, INSEAD, Boulevard de Constance, F-77305 Fontainebleau, France. Tel.: (33) (1) 60 72 40 17, fax: (33) (1) 60 72 40 49, e-mail: jelassi@insead.fr.

PURPOSE AND HISTORY: The idea to launch the Group was initiated at the EURO Summer Institute on DSS held in June 1989 in Madeira, Portugal. The participants in that institute felt it necessary to set up a European forum for continuing exchange and collaboration on DSS-related topics. The Executive Council of EURO approved, in its July 1989 meeting, the proposal to create the EURO Working Group on DSS.

Since its foundation, the Group members have been active on several fronts. First, they have played a major role in organizing and participating in the annual Group meetings which so far took place in Fontainebleau, France, in 1990 (host: Tawfik Jelassi), in Bruges, Belgium, in 1991

(host: Dirk Kenis), in Nagyecen, Hungary, in 1992 (host: Andras Edelmayer), in Sintra, Portugal, in 1993 (host: António Rodriguez), and most recently in Turku, Finland (see below).

Other activities of the Group have also consisted of publishing a newsletter, editing special issues of DSS-related journals, organizing an international conference on DSS, sponsoring some academic events, and working on joint research projects.

NUMBER OF MEMBERS: 90

NEWSLETTER: EuroDSS. Editor: Philip Powell, Warwick Business School, The University of Warwick, Coventry CV4 7AL, U.K., tel.: (44) (1203) 52 46 58, fax: (44) (1203) 52 45 39, e-mail: or-spp@razor.wbs.warwick.ac.uk.

ACTIVITIES 1994: The 5th meeting; Turku, Finland, June 30 - July 3, 1994. Host: Timo Leino, Turku School of Economics and Business Administration.

FUTURE PLANNED ACTIVITIES: The 6th meeting; Samos, Greece, May 28-30, 1995. Information: John Darzentas, University of the Aegean, Research Lab of Samos, GR-83200 Karlovassi, Samos, Greece, tel.: (30) (273) 35 482, fax: (30) (273) 35 483, e-mail: idarz@aegean.ariadne-t.gr.

EWGs & Networks

Transportation

COORDINATOR: Dr. Maurizio Bielli, Institute of Systems Analysis and Informatics, National Research Council, Viale Manzoni 30, I-00185 Rome, Italy. Tel. (39) (6) 77 161, fax: (39) (6) 77 16 461, e-mail: bielli@iasi.rm.cnr.it.

PURPOSE AND HISTORY: The EURO Working Group on Urban Traffic and Transportation was founded in July 1991 in Cetraro (Italy) during the 7th Euro Summer Institute on Urban Traffic Management. The name has been changed during the meeting in Glasgow in July 1994 from Urban Traffic and Transportation to TRANSPORTATION, in order to enlarge the topics to be addressed and to involve more people in the participation.

The objectives of this EWG are:

- to provide a forum for exchange of information and experiences on research activities on the field of transportation;
- to encourage joint researches and the development both of theoretical methods and applications;
- to promote the cooperation among different institutions and organizations, leaders at national and international level in the field of transportation systems.

The primary field of interest for the working group is: Operations Research methods, mathematical models and computation algorithms to solve and support the solu-

tion of problems faced by city authorities and public transport companies.

Relevant areas of interest are:

- traffic control and simulation models;
- traffic network equilibrium models;
- land-use and urban transportation planning;
- applications of Combinatorial Optimization;
- public transport management.

The potential activities of the working group can be the following ones:

- organization of meetings and workshops;
- editing of a Newsletter;
- promotion of joint researches;
- implementation, comparison and validation of software packages;
- application and transfer of models and tools to real case environments.

NUMBER OF MEMBERS: 100

NEWSLETTER: A formal newsletter has not been edited till now, but the EURO Bulletins were regularly mailed to members together with information about scientific events and activities concerning the fields the group is interested in.

ACTIVITIES 1994:

- Organization of the International Conference TRISTAN 2, Capri, Italy, June 23-28, 1994.
- One-day Meeting in Glasgow during the EURO XIII Conference.
- Cooperation in the organization of

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the EURO XIII Conference and of the IFAC - IFORS - IFIP Conference on Transportation Systems, China, July 1994.

FUTURE PLANNED ACTIVITIES:

- Organization of the third Meeting in Barcelona, Spain, September 27-29, 1995.
- Organization of the International Conference on Applications of Advanced Technologies in Transportation Engineering, Capri Italy, June 27-30, 1995.

Information Systems

COORDINATOR: Prof. Georgios I. Doukidis, Athens University of Economics and Business, Department of Informatics, 76 Patission Street, GR-10434 Athens, Greece. Tel. (30) (1) 82 33 523, fax: (30) (1) 82 26 204, telex: 225363 ASOE GR.

PURPOSE AND HISTORY: This new group was formed in July 1991 on the 11th EURO Conference in Aachen with Acting Chairman: Prof. G. I. Doukidis, from Athens University of Economics and Business and Acting Secretary: Ms. J. Kuljis from Roehampton Institute in London. The other members of the committee are: Dr. P. Kanof (Italy), Dr. R. J. Paul (UK), Dr. E. Whitley (UK) and Dr. D. Wikarski (Germany). The group was created to provide a European basis for furthering the study and application of all areas of information systems. It is intended that the

group will complement the interests of the UK Operational Research Society, who are sponsoring the European Journal of Information Systems and the European Conferences on Information Systems, to provide a dynamic European focus for this area of interest.

NUMBER OF MEMBERS: About 80.

NEWSLETTER: European Journal of Information Systems (An official publication of the Operational Research Society published by Macmillan).

ACTIVITIES 1994: Active participation (in terms of program and organisation) of the WG in the 2nd European Conference on Information Systems, Breukelen, The Netherlands, May 30-31, 1994.

FUTURE PLANNED ACTIVITIES: Active participation (in terms of program and organisation) of the WG in the 3rd European Conference on Information Systems, Athens, Greece, June 1-3, 1995. For more details contact Dr. G. Doukidis at the above address. Information about our annual meetings, streams of the Conference, papers etc. can be obtained from the two Co-ordinators of the EWG on Information Systems: Prof. G. Doukidis (see address above) and Dr. E. Whitley, The London School of Economics, Department of IS, Houghton Street, London WC2A 2AE, fax: (44) (171) 95 57 385.

EWGs & Networks

ORNETWORK - EURO's network for practitioners

COORDINATOR: Dr. Marc Salomon, Erasmus University, Rotterdam School of Management (F1-37), P.O. Box 1738, NL-3000 DR Rotterdam, The Netherlands. Tel. (31) (10) 40 82 021, fax: (31) (10) 45 23 595, e-mail: msalomon@fac.fbk.eur.nl.

PURPOSE AND HISTORY: The working group has been founded in 1986 by Paul van Beek, Leonard Fortuin, and Luk Van Wassenhove. Objective of the working group is to stimulate the application of Operations Research in practice.

NUMBER OF MEMBERS: 71

NEWSLETTER: The EURO Bulletin is used as a newsletter.

ACTIVITIES 1994: Organization of sessions on practical applications of OR at the EURO XIV conference. Organization of a panel discussion on 'Why is Operational Research not very popular in practice?' at EURO XIV. Introduction of the EURO Practitioners medal (to be handed out at EURO XIV), and preparation of the finalist session at the conference.

FUTURE PLANNED ACTIVITIES:

Future activities include

- the organization of sessions on practical applications of OR at international conferences, workshops, and seminars for OR and non-OR audiences,
- the stimulation of OR practitioners to write articles about their projects in technical and non-technical journals, and in newspapers,
- to interest OR journals and newspapers to publish articles on OR applications,
- to finish a textbook on OR applications.

European Group Decision and Negotiation Support Working Group

COORDINATOR: Dr. Fran Ackermann, Department of Management Science, University of Strathclyde, 40 George Street, Glasgow G1 1QE, Scotland. Tel.: (44) (141) 55 24 400 or (44) (141) 55 23 610, Fax: (44) (141) 55 26 686, e-mail: Fran@mansci.strath.ac.uk.

PURPOSE AND HISTORY: The Working Group was first established in May 1992 and brought together 12 researchers in the GDSS and NSS fields. The seminar's two days proved to be a useful forum for

- beginning to get to know other people with similar interests, and therefore building a community,

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- sharing ideas and experiences, and as a result one which all those who attended wanted to repeat. This was particularly the case during the discussions as it was felt that a large proportion of the research findings and resultant literature was either published in North American journals (thus taking it away from its European perspective and enforcing a particular style) or in the language of the researcher's own country (making it difficult for others to access). Consequently identifying other researchers within Europe working on similar issues was problematic.

Over the two years that the working group has been in existence, it has sought to bring together people with different backgrounds (both in terms of disciplines and professions) and different countries. We currently have members from France, Italy, Belgium, The Netherlands, Germany, Finland, Sweden, Norway and Great Britain and hope to extend this. To further this diversity we have tried to ensure that the Seminar/Workshops are held in different countries (so far France, Norway, Scotland and Belgium) with the only exception being that the 4th and 5th Seminar/Workshops were both held in Glasgow, Scotland. This was in order to capitalise on the opportunity of linking the Working Group with the Euro XIII/OR 36 conference which was held in Glasgow 1994. This link resulted in a dedicated stream containing 15 papers and a joint event with the MCDM Working Group. In January 1995 the Group was granted the Working Group status within

EURO.

The aims and objectives of the Group are:

- to share experiences, knowledge and research outcomes in the area of Group Decision, and Negotiation Support
- to develop collaborative and interdisciplinary research between academics and practitioners and between different European countries
- to increase the awareness of other researchers in related fields (e.g. MCDM) and researchers in other countries (e.g. United States) of work being done in Europe.

NUMBER OF MEMBERS: 52

ACTIVITIES 1994:

- 5th Working Group meeting, University of Strathclyde
- Specific stream focusing on Group and Negotiation Support run for the EURO XIII / OR 36 conference with great success
- application to become an official EURO Working Group

FUTURE PLANNED ACTIVITIES:

- 6th Working Group meeting April 20 - 21, 1995, University of Tilbury, The Netherlands
- Consideration of a putting together a special issue focusing on the area (e.g. EJOR / EJIS)
- Setup of World Wide Web page detailing names, addresses and purpose of Working Group.

EWGs & Networks

MODEST - Modelling of Economies and Societies in Transition

COORDINATORS: Zbigniew Nahorski and Jan W. Owsinski, c/o Systems Research Institute, Polish Academy of Sciences, Newelska 6, 01-447 Warszawa, Poland. Tel.: (48) (22) 36 41 03, Fax: (48) (22) 37 27 72, e-mails: nahorski@ibspan.waw.pl and owsinski@ibspan.waw.pl.

PURPOSE AND HISTORY: MODEST groups the specialists in mathematical and computer modelling who are especially interested in problems of modelling of the economic and social transformation processes taking place in modern world, with explicit emphasis on these processes which occur in the Central and Eastern parts of Europe. It is the purpose of the Working Group to establish a forum for exchange of ideas and experiences with that respect, but also to identify these areas where the most acute gaps exist and where modelling is feasible, and to formulate as well as to promote research projects for exactly these areas. The modelling that MODEST is most interested in is the pragmatic one (whether macro- or micro-economic, simple regression or complex dynamic, analytic or simulation, but oriented at definite current questions and based upon real data

or real-life guesses), though theoretical (e.g. economic political) models are not excluded from the MODEST's perspective.

The Working Group was established in the Spring of 1994 as an entirely informal body. By the Summer 1994 it reached the critical mass in terms of international and interdisciplinary character of the core membership. It is envisaged that the first MODEST workshop will also serve to increase importantly the Group's membership, though we do not aim at a large discipline-based membership.

In Fall 1994 the Group was granted affiliation with the Technical Committee of the International Federation of Automatic Control dealing with "Dynamic Modelling of National and Regional Economies" and, following this, it was proposed that Professor Zbigniew Nahorski might serve as the Vice-Chair of this Technical Committee. In January 1995 MODEST was granted, to our great satisfaction, the Working Group status within EURO. These two affiliations allow the Group to maintain the connection with two international communities which are essential for the methodology and implementation of modelling approaches and projects. The contacts with the two organizations are meant to be harmonized in accordance with their respective regulations and competence domains.

MODEST is institutionally assisted by the Polish Operations and Systems Research Society, the Interfaces Institute Co. in Warsaw, and the Systems Research Institute of the Polish Academy of Sciences.

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NUMBER OF MEMBERS: 17

NEWSLETTER: MODEST Newsletter, 2 issues in 1994.

ACTIVITIES 1994: Establishment of the core membership of the Working Group; preparations for the first workshop of the Group; identification of the plausible areas for the research projects to be potentially launched by MODEST; attempts to get PHARE-ACE funding for such projects.

FUTURE PLANNED ACTIVITIES:

- The first workshop of the MODEST Working Group, Warsaw, September 28-30, 1995. It is envisaged that the workshop will be followed by appropriate publication. Information: Dr. Andrzej Kaluszko, The Interfaces Institute (MODEST), Hirszfelda 4-15, 02-776 Warszawa, Poland. Fax: (48) (22) 27 34 94, e-mail: owsinski@ibspan.waw.pl.

- On the basis of results of the workshop - identification, formulation and promotion of the research project(s) pertinent to the MODEST's purpose.

More information about Working Groups can be obtained from EURO. The EURO-officer in charge of Working Groups is the second vice-president: Lic. Sc. (Econ.) Tuula Kinnunen, Turku School of Economics and Business Administration, Rehtorinpellonkatu 3, SF-20500 Turku, Finland. Tel.: (358) (21) 63 83 304, fax: (358) (21) 63 83 302, telex: 62310 tkkk sf, e-mail: Tuula.Kinnunen@abo.fi.

U' Conference

Bids to organize a U' Conference in 1999

At its meeting in Paris in January 1991 the EURO Executive Committee decided to recommend the establishment of a young persons OR conference, later called EURO Prime (U'), open to persons under the age of 35. The aim of the U' s is to provide a means for young OR workers in Europe to meet together in a less formal and less expensive environment than that of the traditional EURO K conferences. It is suggested that the conference should be based at a university and use student accommodation. U' s will take place every third year in the same year as the IFORS Conference.

For organizing the U' conference the organizers can apply for an interest-free loan from EURO

and for subsidies for young persons coming from Eastern or Southeast Europe or Eastern Central Europe. With the organizers an agreement will be made if EURO or the organizers are obtaining the profit or covering the loss of the conference. More information concerning the organisation of a U' conference can be obtained from EURO.

The members of OR societies (e.g. the participants of EURO Summer Institutes) or the member OR societies of EURO who are willing to host the U' Conference in 1999 are asked to submit the bids to the second vice-president of EURO Tuula Kinnunen. **The deadline for submission of bids is November 30, 1995.**

EURO Mini Conference

Have you got a good theme and team to organize a Mini EURO Conference?

If you have, make a proposal to the second vice-president of EURO to organize a Mini EURO Conference.

What are the Mini EURO Conferences? They are international conferences specialized in a particular promising OR theme or a field of OR applications. Six Mini EURO Conferences have been held so far. The themes of the conferences were

1. Management and Modelling of Dynamics Systems,
2. Expert systems and Artificial Intelligence in Decision Support Systems. An O.R. Interface to Management,
3. O.R. Methods in Transport Planning and Traffic Control,
4. Visual Modelling,
5. Managing Business Opportunities in the Changing Balkan Markets and

6. Risk Management.

EURO has agreed to support at most two Mini EURO Conferences a year. EURO can offer financial assistance in the form of an interest-free loan. This loan can be needed e.g. for printing call for papers and a scientific programme. EURO also assists organizers by providing a channel to distribute the call for papers to all EURO members through the National OR Societies. For the conference EURO is covering no losses, but is neither requesting profits for itself.

The proceedings of the Mini EURO Conference can be offered for publication in EJOR. The editors of EJOR decide if the proceedings can form a special issue of EJOR.

National OR Societies, Working Groups and OR workers can make a proposal to organize a Mini EURO Conference. If you are interested in organizing such a conference in 1997 or later, please, contact the second vice-president of EURO Tuula Kinnunen.

EURO new instrument

Cooperation of two OR Societies in the form of OR Conferences in Central and Eastern Europe

EURO has a new instrument to encourage organizing OR conferences in Eastern or Southeast Europe or Eastern Central Europe. The initiative is called "OR Conferences in Central and Eastern Europe". The conferences are organized by two member OR Societies of EURO, one from Eastern and Central Europe and the other from Western Europe. EURO supports these conferences by giving a grant of at most 5000 CHF. The grant is given to cover the costs of invited speakers coming from Central Europe.

The first conference under this framework will be ECCO VIII

Conference on Combinatorial Optimization. It will be held in Poznan, Poland, May 8- 10, 1995 as a cooperation of the Association of Polish Operational Research Societies (ASPORS), French Society for Information Organization and Systems Science and Technology (AFCET) and the EURO Working Group ECCO (European Chapter on Combinatorial Optimization).

The decision to accept a conference under this initiative is made by the past presidents of EURO. The applications to organize such a conference should be submitted to the second vice-president of EURO, Lic. Sc. (Econ) Tuula Kinnunen, Turku School of Economics and Business Administration, Rehtorinpellonkatu 3, SF-20500 Turku, Finland. Tel.: (358) (21) 63 83 304, fax: (358) (21) 63 83 302, telex: 62310 tkkk sf, e-mail: Tuula.Kinnunen@abo.fi.

21ST MEETING ORAHS, 23 -28 JULY 1995, MAASTRICHT NL

MANAGING HEALTH CARE UNDER RESOURCE CONSTRAINTS

first announcement

The 21st meeting of the European Working Group on Operational Research Applied to Health Services (ORAHS) will be held from 23rd July till 28th July 1995 in Maastricht, The Netherlands. The theme chosen for this 20th anniversary meeting reflects the universal trend of restricted resources for health care, because national health care expenditures are limited while demand for health care is still growing. The conference will focus on decision support offered to health care managers and health care professionals to meet this challenge and:

- balance efficiency in the use of resources with good quality of care
- improve the coherence in the system between different subsystems rendering services to a single patient
- improve the effectiveness of health care provision
- shift care, wherever appropriate, to ambulatory care and home care instead of inpatient care
- bridge the gap between managers and health care professionals in developing effective and efficient health care.

Contributions on each of these topics or related topics are welcome.

Guestspeakers will introduce the conference theme and the above topics. We also intend to invite some of the 'core' members of the Working Group to prepare discussion papers on methodological matters related to OR in health using the vast experience of 20 years of applied scientific research in the Working Group. Moreover, we aim to improve the academic standard of the meeting by producing proceedings, distributed at the meeting, thereby encouraging every participant to prepare a paper.

The social programme will provide ample time for relaxation. It's a tradition of the Working Group to mix hard work with social activities for family as well. So, book the meeting already in your diary and bring your family with you. We are looking forward to meet you in Maastricht, the most southern town in the Netherlands, a gateway to Europe in many respects - this time a suitable meeting place for the group's 20th anniversary celebration. You will hear again from us in December when we will mail the first call for papers. By that time we hope to give you more details on the meeting and on all the wild ideas we have to make it a memorable meeting and a nice opportunity to join this research network of colleagues and friends.

The Organizing Committee for ORAHS21

dr. Allard Kastelein, Eindhoven University of Technology
 dr. Jan Vissers, Eindhoven University of Technology and Dutch Hospital Institute
 dr. Frits van Merode, University of Limburg | Maastricht
 prof. Luc Delesie, Catholic University Leuven

ORAHS21 Conference Secretariat: Mrs. Anja Kirkels, Eindhoven University of Technology / Graduate School of Industrial Engineering and Management Science, P.O. Box 513, 5600 MB Eindhoven, tel. 31-40-472230, fax 464596.

EURO XIV

14-th European Conference on Operations Research**20-th ANNIVERSARY OF EURO JERUSALEM , ISRAEL****July 3-6, 1995
OR: Towards Intelligent Decision Support**

Information: EURO XIV secretariat
c/o Ortra
P.O.B. 50432, Tel Aviv 6100, Israel
Tel: +972 3 517 7888
Fax: +972 3 517 4433
Email: euro@bgumail.bgu.ac.il

1995 is the 20th anniversary of the foundation of EURO.

You are cordially invited to participate in EURO XIV. The EURO XIV Conference will be held at the Hebrew University Givat Ram Campus in Jerusalem. Prominent representatives of the EURO Working Groups will present state-of-the-art reviews in their respective fields. Moreover, a number of semiplenary sessions will be presented by specially invited researchers and practitioners. About 700 papers will be presented in about 200 sessions, over half are invited and will be presented by operational researchers from all over the world.

The EURO Gold Medal will be conferred in the opening session. In honor of the 20th anniversary of EURO several special events will take place in the closing session: the past presidents of EURO will give a special presentation which will be followed by a gala anniversary party sponsored by EURO. In the closing session, a new prize will be given to the best applied paper to further the continuing aim of EURO to bridge the well known gap between theory and practice of Operations Research.

Being in Jerusalem is a social event in itself, nevertheless every evening we will have a special event: on Monday evening the welcome reception will take place. On Tuesday evening all EURO XIV participants are invited by the Mayor of Jerusalem to a civic reception in the King David Tower; in addition to the excellent food and drinks it will also include a remarkable light and sound show about the history of Jerusalem, and a welcome address by the Mayor. On Wednesday evening, we will have a breathtaking night tour of Jerusalem with a guide by bus. On Thursday the Gala celebration of the 20th anniversary of EURO will take place.

Thanks to EURO sponsorship in honor of the anniversary the early registration fee is reduced to \$250 (US dollars), it includes all the social events, three lunches, and coffee breaks during the conference.

For hotel reservations, additional tours, and other information please contact the conference secretariat.

EVENTS

Present section was closed on 21 April. «*» denotes information featured previously.

May 26-27, 1995

***1st International Symposium on Fuzzy Logic**, Zurich, Switzerland.
Information: ICSS Secretariat, P.O. Box 657, CH-8055 Zurich, Switzerland ((fax: +41 1 761 9627).

May 28-31, 1995

***2nd International EurOMA Conference on Management and New Production Systems**, Twente, The Netherlands.

Abstracts deadline: November 15, 1994.
Information: University of Twente, School of Management Studies, Conference Secretary EurOMA Conference, attn: Jeannette Visser-Groeneveld, P.O. Box 217, NL 7500 AE Enschede, The Netherlands tel.: +31 53 894 533, fax: +31 53 339 885, Email: j.m.visser@sms.utwente.nl).

May 29-31, 1995

***4th IPCO Conference on Integer Programming and Combinatorial Optimization**, Copenhagen, Denmark.
Abstracts Deadline: October 31, 1994.
Information: Jens Clausen, DIKU, Universitetsparken 1, DK-2100 /E, Denmark (fax: +45 35 321 401, Email: clausen@diku.dk).

May 29-31, 1995

***2nd IFAC/IFIP/EurAgEng Workshop on Artificial Intelligence in Agriculture**, Wageningen, The Netherlands.
Abstracts deadline: November 1, 1994.
Information: Alexander Udink Ten Cate, Agricultural Research Department, DLO, P.O. Box 59, NL-6700 AB Wageningen, The Netherlands (tel.: +8370 74132, fax: +8370 24060, email: udink@dlo.agro.nl).

June 1-3, 1995

EWG Financial Modelling Meeting, Bergamo, Italy.
Information: Prof. Dr. Jaap Spronk, Erasmus University Rotterdam, Department of Finance, P.O. Box 1738, NL-3000 DR Rotterdam, The Netherlands. Tel.: (31) (10) 40 81 282, fax: (31) (10) 45 26 399, e-mail: spronk@finbel.few.eur.nl.

June 1-3, 1995

***3rd European Conference on Information Systems ECIS'95**, Athens, Greece.
Papers deadline: November 30, 1994
Information: Prof. Georgios Doukidis, ECIS'95 Programme Chair, Athens University of Economics and Business, 76 Patission Str., G-104 34 Athens, Greece (tel.: +30 1 823 3523, fax: +30 1 822 6105, +30 1 822 6204, email: gdouk@isosun.ariadne-t.gr).

June 4-8, 1995

***4th Meeting on Model Oriented Data Analysis MODA4**, Spetses, Greece.
Information: C.P. Kitsos, Athens University of Economics and Business, 76 Patission Street, Athens, Greece (fax: +30 1 8226204).

June 7-9, 1995

***4th Twente Workshop on Graphs and Combinatorial Optimisation**, Enschede, The Netherlands.

Information: U. Faigle or C. Hoede, Department of Applied Mathematics, University of Twente, P.O. Box 217, NL-7500 AE Enschede, The Netherlands (email: faigle@math.utwente.nl, hoede@math.utwente.nl, hunting@math.utwente.nl).

June 11-14, 1995

***FRANCORO Rencontres francophones de recherche opérationnelle**, Mons, Belgium.
Abstracts deadline: January 31, 1995.
Information: FRANCORO, Facultés Polytechniques de Mons, 9 rue de Houdain, B-7000 Mons, Belgium (fax: +32 65 374 500, email: francoro@mathro.fpm.ac.be).

June 12-14, 1995

EWG EUROBanking special interest group meeting, Stockholm, Sweden.
Information: Mr. Fred Ridgeway, Head of Management Services, Bank of Ireland, Head Office, Lower Baggot St, Dublin 2, Ireland. Tel.: (353) (1) 66 15 933, Fax: (353) (1) 66 15 473, e-mail: fridgeway@iol.ie.

June 12-22, 1995

***NATO Advanced Institute on Current Issues and Challenges in the Reliability and Maintenance of Complex Systems**, Antalya, Turkey.
Closing date for application: January 31, 1995.
Information: Prof. Suleyman Ozekici, Director, NATO-ASI, Dept. of Industrial Engineering, Bogazici University, TR-80815 Bebek-Istanbul, Turkey (tel.: +90 212 257 50 37, fax: +90 212 265 18 00, Email: ozekici@hisar.cc.boun.edu.tr).

June 17-30, 1995

***12th EURO Summer School ESI XII on Locational Analysis**, Puerto de la Cruz, Tenerife, Spain.
Applicant submission deadline to national OR Society: January 31, 1995.
Information: Dr. Jose A. Moreno Perez, D. Estadística, I.O. y C., Facultad de Matemáticas, Universidad de La Laguna, E-38271 La Laguna, Spain (tel.: +34 22 603 777, fax: +34 22 630 040, email: esi95@ull.es).

June 19-23, 1995

***12th International Conference on Multiple Criteria Decision Making**, Hagen, Germany.
Abstracts deadline: January 1, 1995.
Information: Prof. Dr. Günter Fandel, FernUniversität Hagen, Faculty of Economics, AVZ II, D-58084 Hagen, Germany (tel.: +49 2331 9872625, fax: +49 2331 987313, email: mcdm95@fernuni-hagen.de).

June 27-30, 1995

***4th International Conference on Applications of Advanced Technologies in Transportation Engineering**, Capri, Italy.
Abstracts deadline: October 30, 1994.
Information: Maurizio Bielli, Italian Project on Transportation, National Research Council, Viale Manzoni 30, I-00185 Roma, Italy (tel.: +39 6 7716462, fax: +39 6 7716461, email: bielli@iasi.rm.cnr.it).

June 29-July 1, 1995

***International Conference on Environment and Informatics**, Budapest, Hungary.
Abstracts Deadline: January 31, 1995.
Information: EN+IN Conference, Viktor Richter, Computer and Automation Research Institute, H-1518 Budapest, P.O. Box 63, Hungary (tel.: +361 181 0511, 166-5644, fax: +361 186 9378, 166-7503, Email: h874ric@ella.hu).

July 3-6, 1995

***EURO XIV Conference '95**, Jerusalem, Israel.

Abstracts Deadline: November 15, 1994.

Information: Prof. Zilla. Sinuany-Stern c/o Ortra Ltd. P.O. Box 50432, Tel-Aviv 61500, Israel (tel.: +972 3 664825, fax: +972 3 660952, email: euro14@bgumail.bgu.ac.il).

July 5-7, 1995

***European Conference on Management of Technology**, Birmingham, UK.
Abstracts deadline: September 22, 1994.
Information: Mrs Julie Ellen, Aston Business School Research Institute, Aston University, Birmingham B4 7ET, UK (tel.: +44 21 359 3611 ext 4599, fax: +44 21 333 5620).

July 7, 1995

EWG ESIGMA Meeting, Jerusalem, Israel.
Information: Prof. Carlos A. Bana e Costa, CESUR - IST, Av. Rovisco Pais, P-1096 Lisboa Codex, Portugal. Tel. (351) (1) 80 95 80 or (351) (1) 80 97 05, fax: (351) (1) 80 98 84

July 10-14, 1995

***17th IFIC TC7 Conference on System Modelling and Optimisation**, Praha, Czech Republic.
Information: 17th IFIC TC7 Conference, Institute of Information Theory and Automation, Academy of Science of the Czech Republic, P.O. Box 18, Pod vodárenskou veží 4, CZ-18208 Praha, Czech Republic (fax: +42 2 6641 4903, Email: ifip@utia.cas.cz).

July 10-14, 1995

***4th International Conference on Critical Issues in Systems Theory and Practice**, Hull, UK.
Abstracts deadline: August 12, 1994.
Information: Keith Ellis, Director of Research, School of Computing and Information Systems, University of Humber, Cottingham Road, Hull HU6 7RT, UK (tel.: +482 440 550).

July 11-12, 1995

***Conference on the Evaluation of Information Technology**, Henley Management College, UK.
Paper submission deadline: February 17, 1995.
Information: Mrs Ann Brown, Programme Chair, IS Division, City University Business School, Froisher, Barbican Centre, London EC1V 0HB, UK.

July 17-19, 1995

***Conference on Optimization '95**, Braga, Portugal.
Abstracts deadline: March 30, 1995.
Information: Conference on Optimization '95, Departamento de Produção e Sistemas, Escola de Engenharia, Universidade do Minho, P-4700 Braga, Portugal (tel.: +351 53 604455, fax: +351 53 604456, email: copt95@ci.uminho.pt).

July 18-20, 1995

***1st Joint International Symposium London Business School - IFORS on Energy Models for Policy and Planning**, London, UK.
Abstracts deadline: February 28, 1995.
Information: Derek W. Bunn, London Business School, Sussex Place, Regents Park, London, NW1 4SA, UK (fax: (44) 71 724 7875, email: energy@lbs.lon.ac.uk).

July 23-28, 1995

EWG ORAHS 21st Meeting on Managing Health Care under Resource Constraints, Maastricht, The Netherlands.
Information: ORAHS21 Conference Secretariat: Mrs. Anja Kirkels, Eindhoven University of Technology, Graduate School of Industrial Engineering and Management Science, P.O. Box 513, NL-5600 MB Eindhoven (tel.: +31 40 472 230, fax: +31 40 464 596).

EVENTS

July 23-29, 1995

***1st International Conference on Multiple Objective Decision Support Systems for Agricultural and Environmental Management: Concepts, Approaches, and Applications**, Honolulu, Hawaii, USA.

Information: Int. Conference on MODSS for Agriculture and Environment, Department of Agronomy and Soil Science, College of Tropical Agriculture and Human Resources, 1910 East West Road, Honolulu, Hawaii, USA (fax: +1 808 956 6539).

August 6-10, 1995

***13th International Conference on Production Research**, Jerusalem, Israel.

Information: 13th ICPR Conference Secretariat c/o International Travel & Congresses Ltd., P.O. Box 29313, 61202 Tel Aviv, Israel (tel.: (972) 3 510 538, fax: (972) 3 660 604, ttx: 371767 INTVL IL).

September 20-22, 1995

***AIRO'95 Annual Conference on Enterprise Systems: Management of Technological and Organizational Changes (Models, Methods, Tools)**, Ancona, Italy.

Abstracts deadline: April 30, 1995.

Information: AIRO'95, Prof. Ferdinando Pezzella, Istituto di Informatica, Facoltà di Ingegneria, Università degli Studi di Ancona, Via Breccia Bianche, I-60131 Ancona, Italy (tel.: +71 220 4826, fax: +71 220 4474).

September 24-28, 1995

***8th Meeting of the EURO Working Group on Locational Analysis**, Lambrecht, Germany.

Abstracts deadline: July 1, 1995.

Information: Prof. Dr. H.W. Hamacher, FB Mathematik, Universität Kaiserslautern, Postfach 3049, 67653 Kaiserslautern, Germany (tel.: +631 205 2267, +631 205 2511, fax: +631 29081, Email: ewgla8@mathematik.uni-kl.de).

September 25-27, 1995

***International Symposium on Theory and Applications of Sensitivity Analysis of Model Output in Computer Simulation**, Belgirate, Italy.

Abstracts deadline: March 1, 1995.

Information: A. Saltelli, JRC TP 321, Environment Institute, I-21020 Ispra, Italy (tel.: +39 332 78 9696, fax: +39 332 78 5466, Email: andrea.saltelli@jrc.it).

September 27-29, 1995

EWG Transportation Meeting, Barcelona, Spain.

Information: Dr. Maurizio Bielli, Institute of Systems Analysis and Informatics, National Research Council, Viale Manzoni 30, I-00185 Rome, Italy. Tel. (39) (6) 77 161, fax: (39) (6) 77 16 461, e-mail: bielli@iasi.rm.cnr.it.

September 28-30, 1995

EWG MODEST - Modelling of Economies and Societies in Transition Meeting, Warsaw, Poland.

Information: Zbigniew Nahorski and Jan W. Owsinski, c/o Systems Research Institute, Polish Academy of Sciences, Newelska 6, 01-447 Warszawa, Poland. Tel.: (48) (22) 36 41 03, Fax: (48) (22) 37 27 72, e-mails: nahorski@ibspan.waw.pl and owsinski@ibspan.waw.pl.

October 3-5, 1995

5th Conference on Operational Research KOI'95,

Rab, Croatia.

Deadline: print camera-ready copy of the full paper submission not later than June 1, 1995.

Information: KOI'95 Conference Secretariat, Vesna Kos, Ekonomski fakultet, Kennedyjev trg 6, 41000 Zagreb, Croatia (tel.: +385 1 23 11 11, fax: +385 1 23 56 33, email: neralic@oliver.efzg.hr).

October, 5-6 or 12-13, 1995

***42th EWG Meeting on Multicriteria Aid for Decisions**, Brussels, Belgium.

Information: Bernard Roy, LAMSADE, Université Paris-Dauphine, Place Maréchal De Lattre de Tassigny, F-75775 Paris Cedex 16, France (tel.: +33 1 44 05 42 88, fax: +33 1 44 05 40 91, email: roy@lamsade.dauphine.fr).

October 10-13, 1995

***INRIA/IEEE Conference on Emerging Technologies and Factory Automation**, Paris, France.

Papers deadline: January 10, 1995.

Information: INRIA Rocquencourt, Service des Relations Extérieures, Marie-Claude Sance, Bureau Cours / Colloques, Domaine de Voluceau, BP 105, F-78153 Le Chesnay Cedex, France (tel.: +33 (1) 39 63 56 75, fax: +33 (1) 39 63 56 38, email: symposia@inria.fr).

October 12-13, 1995

SVOR/ASRO Tutorial 1995: New OR Technologies for Transportation and Facility Location, Thun, Switzerland.

Information: Prof. Alain Hertz, SVOR/ASRO 95, Département de Mathématiques, Ecole Polytechnique Fédérale de Lausanne, CH-1015 Lausanne, Switzerland (tel.: +41 21 693 25 68, fax: +41 21 693 42 50, email: hertz@dma.epfl.ch) or Dr. Philippe Solot, SVOR/ASRO 95, Operations Research, Ciba-Geigy AG, R-1008.22.27, CH-1002 Basel, Switzerland (tel.: +41 61 697 90 12, fax: +41 61 697 89 73, email: isolot@chbs.ciba.com).

October 16-19, 1995

3rd Balkan Conference on Operational Research, Thessaloniki, Greece.

Deadline: 250 words abstracts: March 15, 1995; 15 pages full paper: September 15, 1995.

Information: Hellenic Operational Research Society (HELLORS) Macedonia Thrace Branch, Attn. Mrs M. Goudara, 25 Plateia Str., GR-542 49 Thessaloniki, Greece (tel.: +31 325630, fax: +31 314888, email: manosb@olymp.ccf.auth.gr or paparriz@macedonia.vom.gr).

October 25-27, 1995

***AFCE 1995 Conference on « Le rôle des technologies de l'information et de la connaissance dans la mutation des sociétés industrielles »**, Toulouse, France.

Information: AFCE 1995, 156 Bd. Péreire, F-75017 Paris, France (tel.: +33 1 47 66 2419, fax: +33 1 42 67 9312).

October 24-27, 1995

***4th IFORS Specialized Conference on Operations Research and Engineering Design**, St. Louis, Missouri, USA.

Abstracts deadline: February 1, 1995. Information: IFORS SPC-4, Prof. James Campbell, School of Business Administration, University of Missouri - St. Louis 8001 Natural Bridge Road, St. Louis, Missouri 63121-4499, USA (Email: ifors.stl@whimsy.umsf.edu).

October 31-November 4, 1994

***27th International Symposium on Advanced Transportation Applications**, Aachen, Germany.

Information: ISATA Secretariat, 42 Lloyd Park Avenue, Croydon CRO 5SB, UK (tel.: +8168 13069,

fax: +8168 61490).

November 14-17, 1995

***XXII Congreso Nacional de Estadística e Investigación Operativa**, Sevilla, Spain.

Information: D. Rafael Infante Marcia, Direc. Dpto. de Estadística e I.O., Univ. de Sevilla, Avda. Reina Mercedes, E-41012 Sevilla, Spain.

November 15-17, 1995

2d SIGEF International Meeting on Fuzzy Management and Economics, Santiago, Spain.

Deadline: 15 lines abstract: July 15, 1995; 25 pages paper: September 30, 1995.

Information: Comité Organizador del II Congreso de Gestión y Economía Fuzzy, Sociedad Internacional de Gestión y Economía Fuzzy (SIGEF), Facultad de Ciencias Económicas y Empresariales, Universidad de Santiago de Compostela, Avda. Juan XXIII s/n, 15704 Santiago de Compostela (La Coruña) España (tel.: +981 56 31 00 ext. 1606 or 1607, fax: +981 56 36 37).

December 5-7, 1995

EuroPIA'95: a critical review of the application of advanced Technologies in Architecture, Civil and Urban Engineering, Lyon, France.

Deadlines: full paper: April 30, 1995.

Information: Prof. M. Miramond, Chairman EuroPIA'95, Lab. Méthodes - 304, INSA Lyon, 20 avenue Albert Einstein, F-69621 Villeurbanne Cedex, France (tel.: +33 72 43 82 09, fax: +33 72 43 85 21, email: methodes@insa1gcu.insa-lyon.fr).

January 8-10, 1996

***4th International Workshop on Artificial Intelligence in Economics and Management**, Tel-Aviv, Israel.

Abstracts deadline: March 1, 1995.

Information: AIEM4, c/o Dr. Moshe Zviran, Faculty of Management, Tel-Aviv University, Tel-Aviv, Israel (tel.: +972 3 640 8025, fax: +972 3 640 9560, Email: aiem96@vm.tau.ac.il).

January 28-30, 1996

Seventh Annual ACM-SIAM Symposium on Discrete Algorithms, Atlanta, Georgia, USA.

Deadline: abstract: airmailed postmarked by July 12, 1995.

Information: SIAM, 3600 University Science Center, Philadelphia, PA 19104-2688 USA (tel.: +215 382 9800, fax: +215 386 7999, email: meeting@siam.org).

February 12-23, 1996

***9th International Working Seminar on Production Economics**, Innsbruck, Austria.

Abstracts deadline: November 1, 1995.

Information: Janerik Lundquist, Department of Production Economics, Linköping Institute of Technology, S-581 83 Linköping, Sweden. (tel.: +46 1328 1505, fax: +46 1328 1873, email: rwg@ipe.liu.se).

July 8-12, 1996

***IFORS XIV Conference on «Bridging the Theory and Practice of Decision Making»**, Vancouver, Canada.

Deadline: 50 words abstract: October 31, 1995.

Information: IFORS Secretariat, Ms. Helle R. Welling, c/o IMSOR, bldg. 321, Technical University of Denmark, DK-2800 Lyngby, Denmark (fax: +45 42 88 13 97).



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