

A pictorial history of EWM

By Bodil Branner and Caroline Series

Presented in Barcelona, September 2011.

EWM

European Women in Mathematics

www.europeanwomeninmaths.org

- Founded in 1986 to support, encourage and bring together women mathematicians across Europe
- Membership organisation open to all
- Organises biennial general meetings and other local or specialist conferences
- Has members and coordinators in 32 countries
- Has email net, newsletter and website



EWM Aims

- to encourage women to study mathematics.
- to support women in their careers.
- to provide a meeting place for like-minded people.
- to promote scientific communication.
- to cooperate with groups and organizations with similar goals.



Ingrid Daubechies
EMS Lecturer
EWM Meeting, Novi Sad 2009



Current Convenor
Marie-Françoise Roy

Organisational Structure of EWM

Convenor and Deputy Convenor

Marie-Francoise Roy,
France
Frances Kirwan, UK

Treasurer

Camilla Hollanti,
Finland

Standing Committee

Dorothy Buck, UK
Lisbeth Fajstrup,
Denmark
Ruth Kellerhals,
Switzerland
Sylvie Paycha, France
Daniela Popova, Bulgaria
Sanja Rapajic, Serbia
Magdalena Rosak,
Poland

International Coordinators

Natasha Balashevich, Belarus (Central and Eastern)
Irene Schhira, Malta (Southern and Western)
Camilla Hollanti, Finland (Global)

Regional coordinators

32 countries:

Austria, Belarus, Bosnia & Herzegovina, Bulgaria, Croatia, Denmark, Finland, France, Georgia, Germany, Great Britain, Greece, Hungary, India, Ireland, Italy, Lithuania, Macedonia, Malta, Moldova, Montenegro, The Netherlands, Norway, Poland, Romania, Russia, Serbia, Slovakia, Spain, Switzerland, Turkey, Ukraine

Other coordinators

Links with AWM, EMS,
Emerging countries

Newsletter

Sara Munday, UK
Elena Resmerita, Austria

Email net, Web page

Olga Lukina, UK

Biennial general meetings

Novi Sad, Serbia.
August 2009

European Women in Mathematics 2007

Centre for Mathematical Sciences,
Cambridge, UK

3rd to 6th September 2007

www.maths.cam.ac.uk/ewm

ewm07@maths.cam.ac.uk

Plenary Speakers

Ana Achucarro, Lorenz Institute, Leiden: Theoretical Physics
Toni Beardon, Cambridge: Globalisation and Mathematics Education
Natalia Berloff, Cambridge: Quantum Fluids
Lenore Blum, Carnegie Mellon: Theoretical Computer Science
Simone Gull, Univ. Libre de Bruxelles: Symplectic Geometry
Eleny Ionel, Stanford: Symplectic Geometry
Dusa McDuff, SUNY Stony Brook: Symplectic Geometry
Cheryl Praeger, University of Western Australia: Group Theory
Vera Sos, Budapest: Combinatorics
Ramdorai Sujatha, Tata Institute, Mumbai: Number Theory

*EWMI 2007 is the 13th General Meeting of European Women in Mathematics
For more information about EWM, see www.math.helsinki.fi/EWM/*

Programme

Plenary talks
Splitter and poster sessions
Receptions at Newnham and Trinity Colleges
Discussion on the role and future of EWM
Conference banquet at Trinity College
Punting on the River Cam
Accommodation at Fitzwilliam College

Sponsors

EPSRC women@CL project
Trinity College Cambridge
Newnham College Cambridge
Engineering and Physical Sciences Research Council
London Mathematical Society
Edinburgh Mathematical Society
Schlumberger

Cambridge UK

September 3-6, 2007

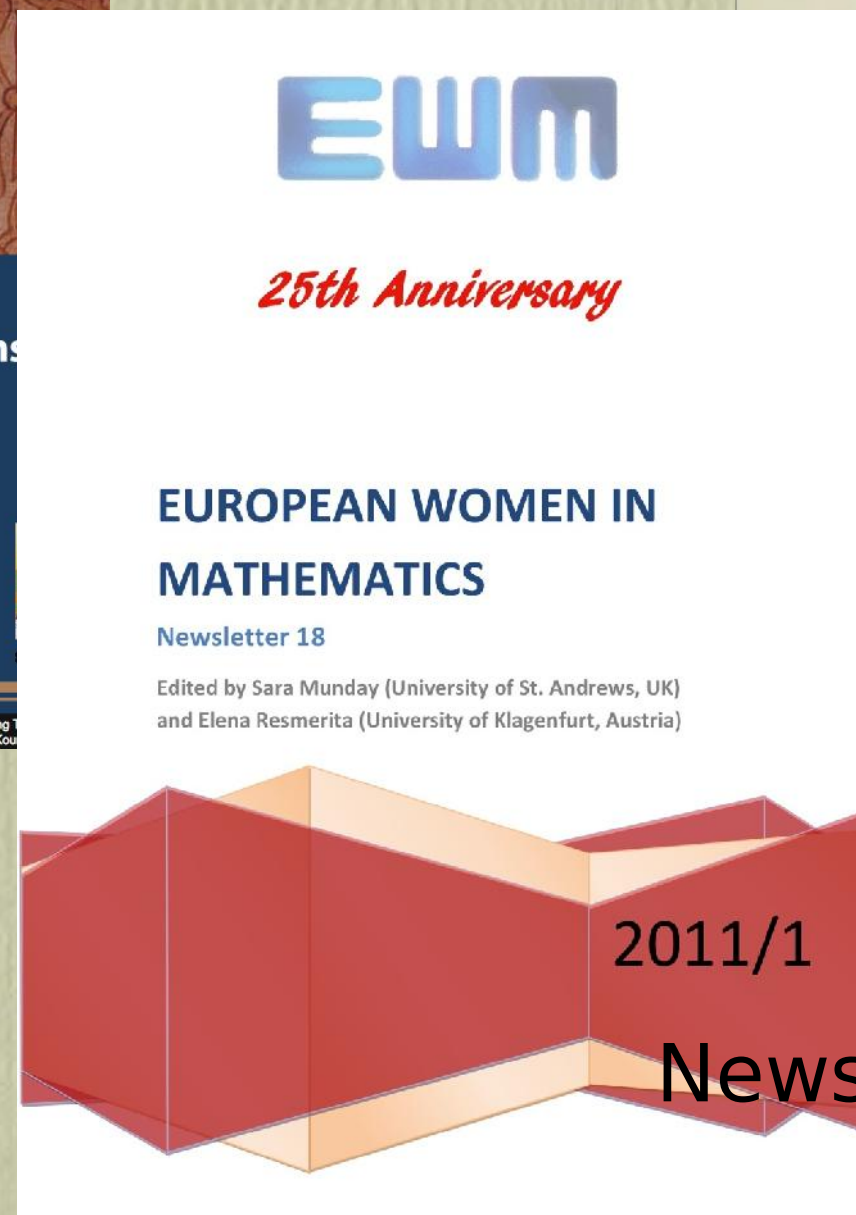


Biennial Meetings

- Paris 1986
- Copenhagen 1987
- Warwick, UK, 1988
- Lisbon 1990
- Marseille 1995
- Trieste, Italy 1997
- Loccum, Germany 1999
- Malta 2001
- Luminy, France 2003
- Volgograd, Russia 2005
- Cambridge, UK 2007
- Novi Sad, Serbia 2009
- Barcelona 2011
- Bonn 2013

Other EWM activities

Summer Schools



International Conference of Women Mathematicians

I C W M
2 0 1 0

August 17-18, 2010

University of Hyderabad, India

<http://www.icwm2010.org.in>

<http://www.icm2010.org.in>

Contact: madan.icwm2010@gmail.com

Photograph courtesy: Nihang T
Designed by: Koushik

Congresses

The beginning

EWM began at the International Congress of Mathematicians in Berkeley, August 1986.

ORGANIZED BY THE

Association for Women in Mathematics

Panel

WOMEN IN MATHEMATICS:
AN INTERNATIONAL PERSPECTIVE
EIGHT YEARS LATER

International Congress of Mathematicians
University of California, Berkeley

Wednesday, August 6

7:30 -- 8:30 p.m.

in

Physical Science Lecture Hall

Participants Include:

Josefina Alvarez-Alonso (Argentina)
Lenore Blum (USA), Moderator
Bodil Branner (Denmark)
Marie-Francoise Coste-Roy (France)
Gudrun Kyllbach (Federal Republic of Germany)
Bokunola Osibodu (Nigeria)
Maria Jose Pacifico (Brazil)
~~Reiko Sakamoto (Japan)~~
Jenny Seberry (Australia)
Caroline Series (England)

There will be a RECEPTION immediately following the Panel Discussion.

If you are interested in more information about AWM while attending the Conference, please feel free to talk to Linda Keen the President, Bettye Anne Case the Meetings Chair or any member of the Local Arrangements Committee: Lenore Blum, Lisa Goldberg, and Evelyn Silvia.

ASSOCIATION FOR WOMEN IN MATHEMATICS
Box 178, Wellesley College
Wellesley, Massachusetts 02181

EUROPEAN BRANCH OF THE ASSOCIATION FOR WOMEN IN MATHEMATICS

At the International Congress in Berkeley this summer, the AWM organised a panel discussion on the situation of women mathematicians worldwide. A full account of the meeting is to be found in the September AWM newsletter, obtainable from AWM, Box 178, Wellesley College, Wellesley, MA 02181, U.S.A. As a result of that meeting, it was decided to form a European branch of AWM.

A preliminary working meeting to discuss the form which this organisation should take will be held in Paris, on December 13th-14th 1986. Anyone who would like to participate in this meeting, or who has suggestions relating to the organisation, or who would be interested in joining or receiving future mailings should contact either Caroline Series, Mathematics Institute, Warwick University, Coventry CV4 7AL or Dona Strauss, Department of Mathematics, University of Hull, Newland Park, Hull HU5 2DW.

The next steps

Universität Ulm

Abteilung für Mathematik III

Prof. Dr. G. Kalmbach

D-7900 Ulm, den *Nov. 11, 1986*
Oberer Eselsberg
F: (0731) 176 - 2928

Dear *Caroline*,

this is our second circular letter concerning our first meeting of the A. W. M., European Branch. It will be in

Paris, Institut Henri Poincaré (IHP),
Rue Piere et Marie Curie (near the Luxemburg)
December 13, (Saturday) 1 pm to December 14, 1 pm

If you did not write to me up to now: please return the attached form if you want to attend the meeting. Everyone should make her own hotel reservation. The tentative schedule is:

- Dec. 13: 1 - 1:45 pm Bodil Branner "Iteration of Complex Polynomials"
2 - 2:45 pm Gudrun Kalmbach "Measures and Orthomodular Spaces"
3 - 6:30 pm General Meeting
- Dec. 14: 10 - 10:45 am Marie-Francoise Coste-Roy "Les Ecoles Normales Supérieure of Rue d'Ulm and of Sèvres"
11 - 1 pm General Meeting.

Specific topics for the discussion (to be completed) and general meeting are:

- (a) The future of scientific education for girls.
(b) Why do women take a longer time than men to acquire self-confidence? (Michelle Schatzman)
(c) Discussion on the french "competative examination". (M.-F. Coste-Roy)
(d) Discussion on an "European Statute" for the European Branch of A. W. M. (G. Kalmbach)
(e) Vote for a committee: chair, vicechair, treasurer, secretary.
Volunteers until now are: B. Branner (Denmark), M.-F. Coste-Roy (France), G. Kalmbach (W-Germany), D. Strauß (England).

On behalf of the temporary committee, sincerely yours,

Gudrun Kalmbach

(Gudrun Kalmbach)

Paris
December 1986
At least 10 women from
at least 5 countries

BRIEF REPORT ON THE

EWM MEETING

DECEMBER 12/13, 1987, COPENHAGEN

The second meeting of the European Women in Mathematics was attended by 22 participants from nine countries and reports were given about the situation in each country.

A detailed report will be written by Catherine Goldstein, Dépt. de Math., Univ. de Paris XI, F-91405 ORSAY, Cedex. It will be distributed by Marion Kimberley, Goldsmiths' College, Lewisham Way, LONDON SE14 6NW, England. Marion also has a list of the national coordinators.

Ragni Piene from Oslo Universitet gave an invited address on "Some differential-geometric aspects of algebraic geometry". Several committees have been formed for special issues. The next meetings are planned for

Warwick, England, November/December 1988
Lisboa, Portugal, 1989 and provisionally for
1990, Roma, Italy.

The meeting was partially supported by the Danish Ministry of Education, the Danish Natural Science Research Council, the Danish Social Science Research Council, the Otto Mønsted Foundation, private donations and the Technical University of Denmark.

EUROPEAN WOMEN IN MATHEMATICS

Detailed report of the second annual

EWM MEETING

December 12-13, 1987, Copenhagen (Lyngby).

G. Kalmbach

(G. Kalmbach)

Marketa Novak

(Marketa Novak)

Copenhagen
December 1987
22 women from 9
countries

Second Announcement

Third Annual Meeting of European Women in
Mathematics.

Warwick University, Coventry, England,

December 10th - 12th, 1988.

The programme will consist of:

(i) *Expository talks*

The third day of the conference (Monday) will take the form of an open mathematical meeting. There will be talks on research mathematics given by women prominent in their fields.

(ii) *Meeting for local schoolgirls*

On the Sunday afternoon fifth and sixth form girls from local schools will be invited to attend the meeting. There will be a mathematical talk followed by tea and general discussion.

(iii) *General Discussion: Family versus career*

This theme was selected as a result of overwhelming demand at the last annual meeting in Copenhagen.

(iv) *Business Meetings for EWM.*

These will be to discuss the possibilities for future action and various organisational and constitutional questions.

(v) *Social events.*

An evening out for a meal will be organised on Sunday.

More details of the programme and a report on the last annual meeting are available on request from the organisers (Sarah Rees and Caroline Series) at the Mathematics Institute, University of Warwick, Coventry,

Warwick December 1988

43 women from 13
countries

EUROPEAN CONFERENCE
of WOMEN in MATHEMATICS



10-12 DECEMBER 1988
UNIVERSITY of WARWICK
ENGLAND



EUROPEAN WOMEN IN MATHEMATICS

This organisation is an affiliation of women in Europe bound by a common interest in the position of women in mathematics. We are a sister organisation of the *American Association for Women in Mathematics*. Our purposes are:

- To encourage women and girls to take up and continue their studies in mathematics.
- To support women with or desiring careers in mathematics or mathematics related fields.
- To provide a meeting place for these women.
- To promote equal opportunity and equal treatment of women in the mathematical community.
- To cooperate with groups and organisations, in Europe and elsewhere, with similar goals.

Our organisation was conceived at the International Congress of Mathematicians in Berkeley, August 1986, as a result of a panel discussion organised by the Association for Women in Mathematics, in which several European women mathematicians took part. There have since been three European meetings, the first in Paris in December 1986, the second in Copenhagen in December 1987, and the third in Warwick (England) in December 1988. The fourth meeting will take place in Lisbon in December 1989. The fifth meeting is provisionally planned for Italy in 1990.

At the time of writing, there are participating members in the following countries: Denmark, Finland, France, Greece, Italy, Netherlands, Norway, Poland, Portugal, Spain, Sweden, Switzerland, United Kingdom, West Germany, and contacts in Czechoslovakia and Hungary. Activities and publicity within each country are organised by national co-ordinators. Each country or region is free to form its own regional or national organisation, taking whatever organisational or legal form is appropriate to the local circumstances. Such organisations already exist in France (*Femmes et Mathématiques*), Scandinavia (*The Nordic Group*) and at Warwick University, England (*Warwick Women in Mathematics*). Details of the activities of these groups can be obtained directly from their organisers. Other members are encouraged to consider the possibility of forming such local, regional or national groups themselves.

For further information please contact your national co-ordinator or the general co-ordinator Dr. Marion Kimberley, National Heart and Lung Institute, Dovehouse Street, London SW3 6LY, England. Tel: 01-352-8121 ext.3057.

Getting organised



Between 1987 and 1991 we set up our basic structure of convenor, standing committee and regional co-ordinators. By 1993 we had established an office in Helsinki and were registered as a legal organisation in Finland ... as the EMS had been in 1990.

Luminy
December 1991

Getting publicity
and having fun!



What do we want
from a maths talk?

Page 13

S O C I E T É

CONFÉRENCE JUSQU'AU 13 DÉCEMBRE

Elles préfèrent les maths

Ni oiseaux rares, ni phénomènes de la nature. Elles ont fait des maths leur passion et leur vie professionnelle. Elles sont actuellement une cinquantaine de mathématiciennes, venues de l'Europe entière, au campus de Luminy, pour réfléchir sur le thème "les femmes et les mathématiques". Vaste sujet.

PROFESSION : mathématicienne. Marie Dem- lora, Capl Corrales, Eva Bayer, Catherine Goldstein, Marie-Françoise Roy, Jacqueline L'Homme arrivent tout droit de Prague, de Madrid et de France. Elles sont des femmes de trente-cinq à cinquante et un ans. Chacune a son domaine, son style, son caractère. Mais, toutes, elles partagent une même passion, les maths.

Pour beaucoup, l'idée pourrait paraître saugrenue. Pas pour elles. Les mathématiciennes ont tracé le chemin de leur vie professionnelle et parfois sentimentale. Marie-Françoise est mathématicienne... son mari aussi. "Normal, explique-t-elle, quand on s'affectionne, on se marie. Et puis, les couples se rencontrent souvent pendant leurs études ou dans leur travail. Ça limite les possibilités!" Par contre, des amies de maths après le bar, se multiplient les tâches.

Autres railleries, elles avaient "l'air" en faisant des maths huit heures par jour, elles trouvent ça beau et passionnant. Bref, un engagement qui fera l'objet de débats et d'échanges d'opinions d'habitants transpirant à grosses gouttes sur les problèmes logarithmiques. Le comble, c'est quand Marie-Françoise affirme être venue aux maths "par passion". "C'était tellement facile pour moi, à l'époque de lycée, que je me suis laissée guider instinctivement, sans beaucoup de passion, mais beaucoup de persévérance", Marie affirme. Pour sa part, après avoir traité la question à quinze ans, comme par défi: "Il y a tellement peu de femmes mathématiciennes que c'était une façon de se distinguer. Et comme, à l'époque, j'étais petite et très grosse, ça compensait mes difficultés". A l'école, les professeurs de maths de Capl avaient l'air bons et gentils: "On est allé avec une sorte de méthode, des symboles de valeurs positives".

Selon ces dames, pour être une bonne mathématicienne, il faut d'abord être une bonne élève. Il faut être "imaginative, curieuse et avoir une certaine flexibilité, en/ou/vers le et

grosses gouttes sur les problèmes logarithmiques. Le comble, c'est quand Marie-Françoise affirme être venue aux maths "par passion". "C'était tellement facile pour moi, à l'époque de lycée, que je me suis laissée guider instinctivement, sans beaucoup de passion, mais beaucoup de persévérance", Marie affirme. Pour sa part, après avoir traité la question à quinze ans, comme par défi: "Il y a tellement peu de femmes mathématiciennes que c'était une façon de se distinguer. Et comme, à l'époque, j'étais petite et très grosse, ça compensait mes difficultés". A l'école, les professeurs de maths de Capl avaient l'air bons et gentils: "On est allé avec une sorte de méthode, des symboles de valeurs positives".

Elles font fi des petits esprits masculins qui considèrent que "les maths, c'est trop compliqué pour une femme", et elles passent sans transition des équations à la peinture, la littérature, la mode, le jardinage, le bricolage et l'éducation des enfants. "Le plus amusant, souligne Marie, c'est quand on est en pleine recherche et qu'il faut s'arrêter à cinq heures sonnerie pour aller chercher les enfants à l'école. C'est un moment brutal à la réalité, parfois difficile à assumer." Comme quel on peut être mathématicienne et se balader dans les hautes sphères algébriques, on n'en teste pas moins l'humour.

Catherine DUMAIO

aller chercher les enfants à l'école. C'est un moment brutal à la réalité, parfois difficile à assumer." Comme quel on peut être mathématicienne et se balader dans les hautes sphères algébriques, on n'en teste pas moins l'humour.

Catherine DUMAIO

TRAFFIC DE VOITURES

La filière des allemandes démantelée

Les Femmes : grand loto d'action pour le tunnel

L'Association pour la protection des sites (APPS) organise, samedi à 20 h 30, salle Tino-Rossi, un grand loto d'action pour le passage en tunnel de TGV. L'occasion de créer une rencontre avec les Femmes, avec de grands lots à la clé (voyage en Espagne, téléviseur couleur, magnétoscope...)

Un moment également pour soutenir l'action. Depuis plus d'un an, l'association luttait pour que le tracé du TGV ne soit pas celui de défigurer la commune des Femmes-Mirabeau.

Cette association, explique l'association, aux portes de Marseille, supporte, en effet, deux semaines de travaux. Le tracé tel qu'il est prévu rendra les lieux encore plus inhabitables. De plus, certaines habitations ou fontaines de la commune et d'écoulement d'eau qu'elles sont ne le chemin de TGV.

L'association se propose pour un passage en tunnel sous la commune. Une solution retenue par la SNCF pour la présente d'un tunnel. Réponse qui ne peut satisfaire les riverains, qui sont décidés à ne pas laisser les lieux.



Catherine Goldstein : "Les maths? C'est beau et passionnant!" (Photo Marc Fodda)



Capl Corrales : "Mes profs ont été une sorte de modèle".



Marie-Françoise Roy : "Une vocation par passion".

Dear colleague,

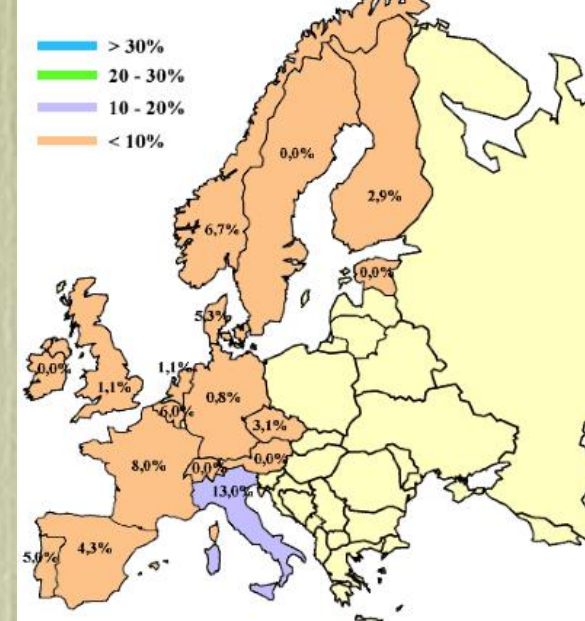
As you know, our program in Luminy will include a discussion on mathematical talks: what we want from them, what they are really used for and how to change them. In order to make our discussion more constructive, we suggest that future participants think over these questions before December, 1991; we have therefore prepared a little questionnaire about talks which we hope may help you define your needs and your thoughts on certain points. Please try to fill it out at some talks you may attend (different types of talks and seminars could inspire different answers, so don't hesitate to fill it out several times on separate pieces of paper!). We would like to receive your answers (and commentaries) before the end of October, 1991.

The organizers

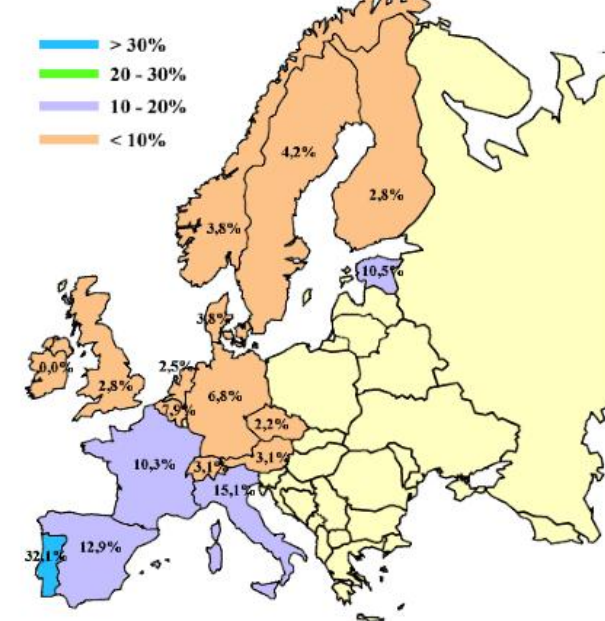
Statistics

In 1991 Eva Bayer suggested that the EMS set up a Women in Maths committee. With EWM's help, they collected statistics about women mathematicians across Europe.

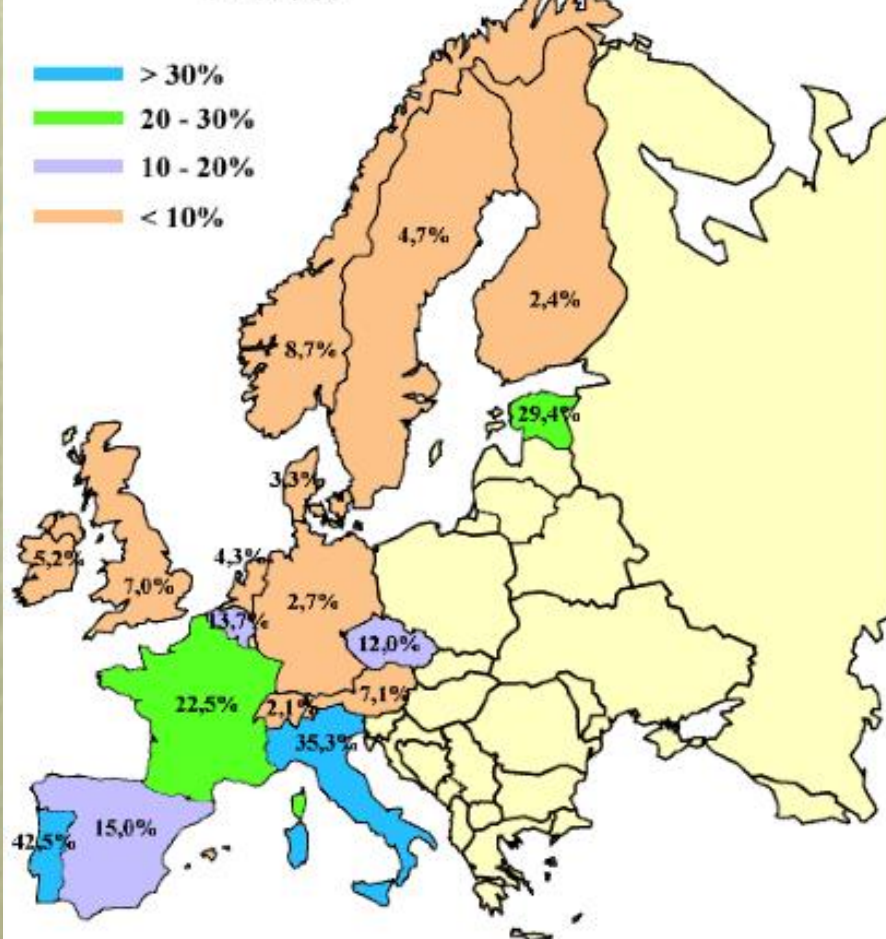
Percentage of women full professors in 1993.



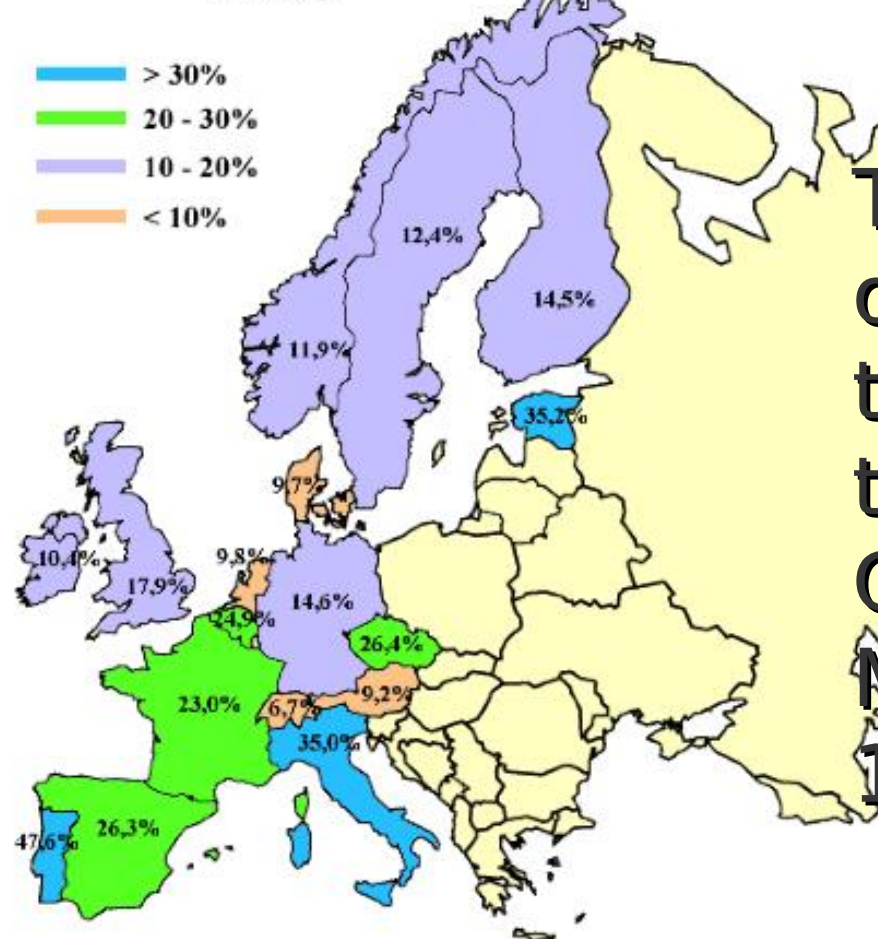
Percentage of women full professors in 2005.



Percentage of women mathematicians in 1993.



Percentage of women mathematicians in 2005.

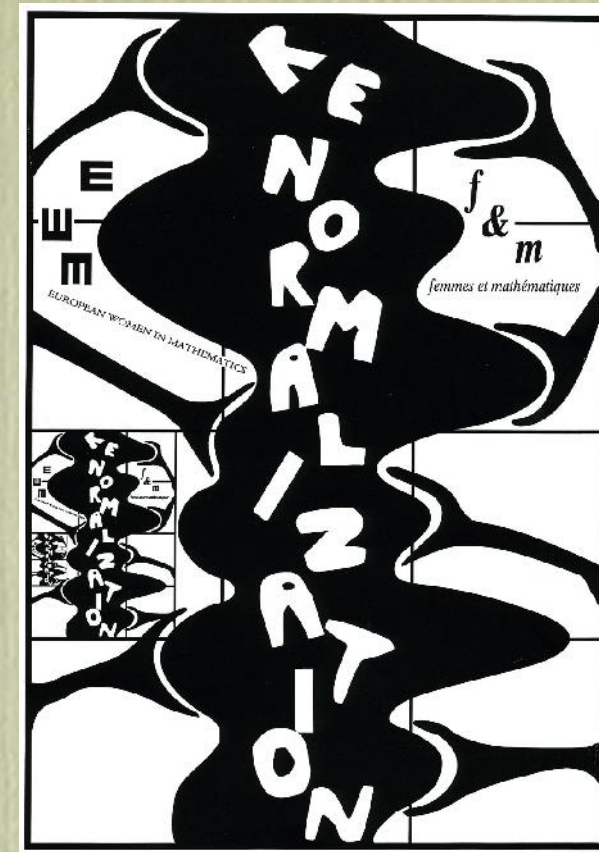


The WiM committee organised a round table discussion at the first European Congress of Mathematics in Paris 1992.

EWM continued with a main meeting every two years and other events between.



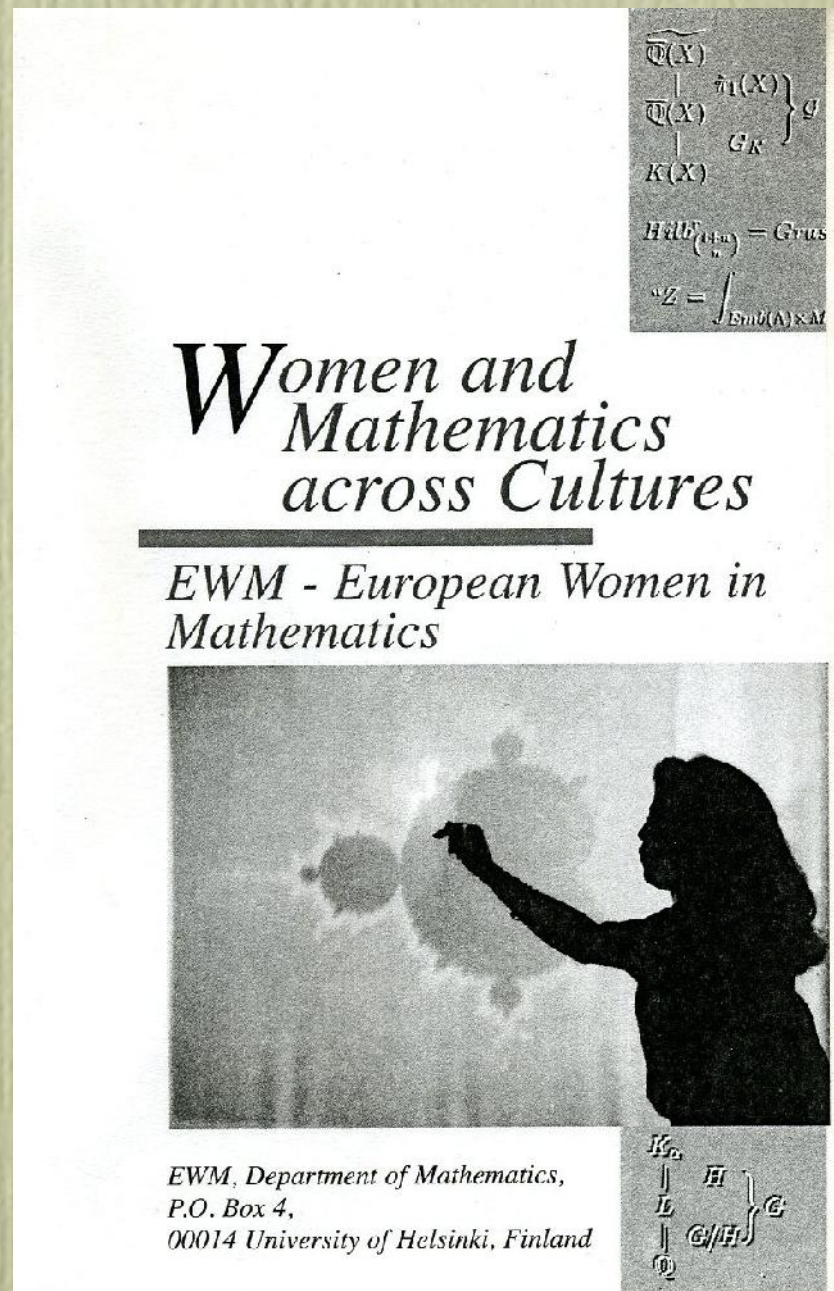
Madrid 1995
46 women from 14 countries



Paris 1996 - Workshop
organized jointly
between EWM and f&m
(Femmes et Maths)

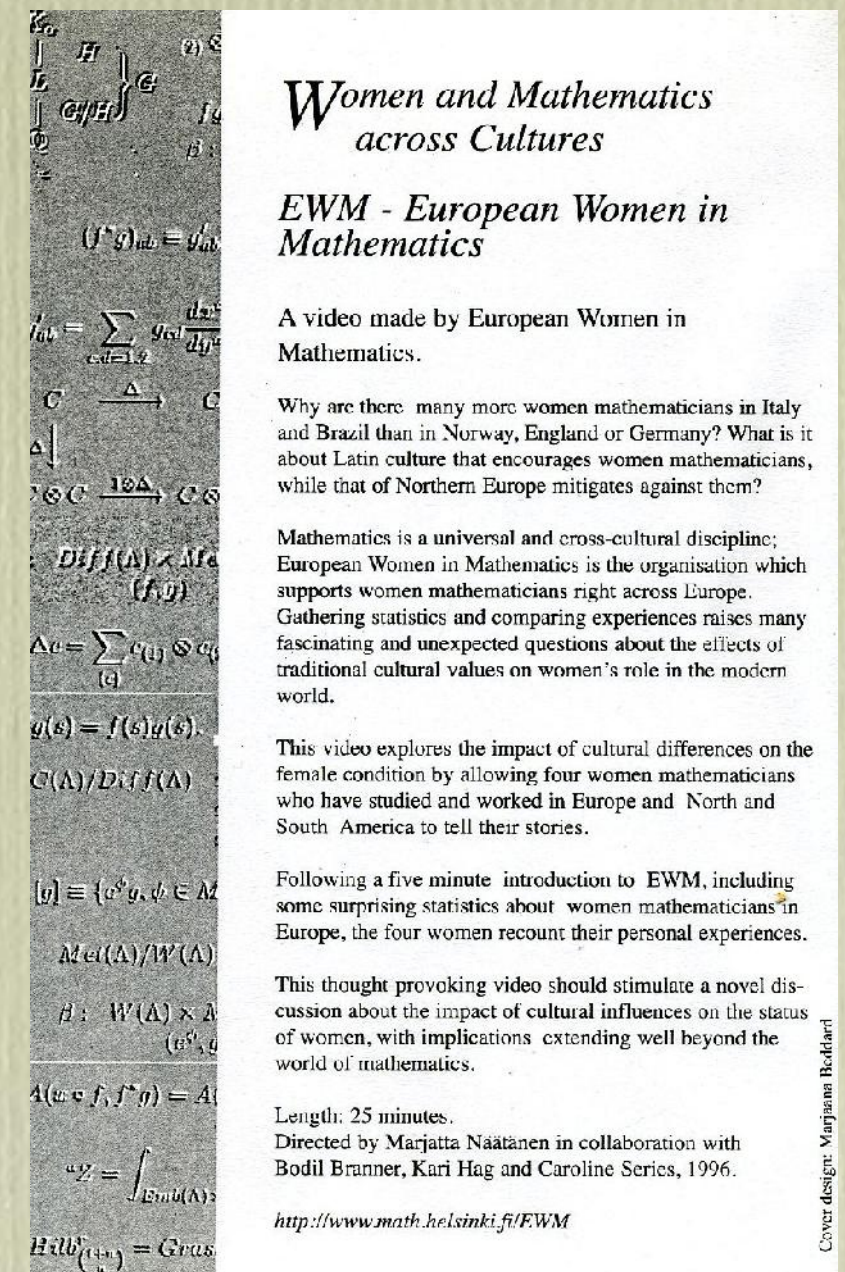
During the Madrid meeting
a video was filmed on the
initiative of Marjatta
Näätänen

The WiM committee of EMS organised a round table discussion at the second European Congress of Mathematics in Budapest 1996

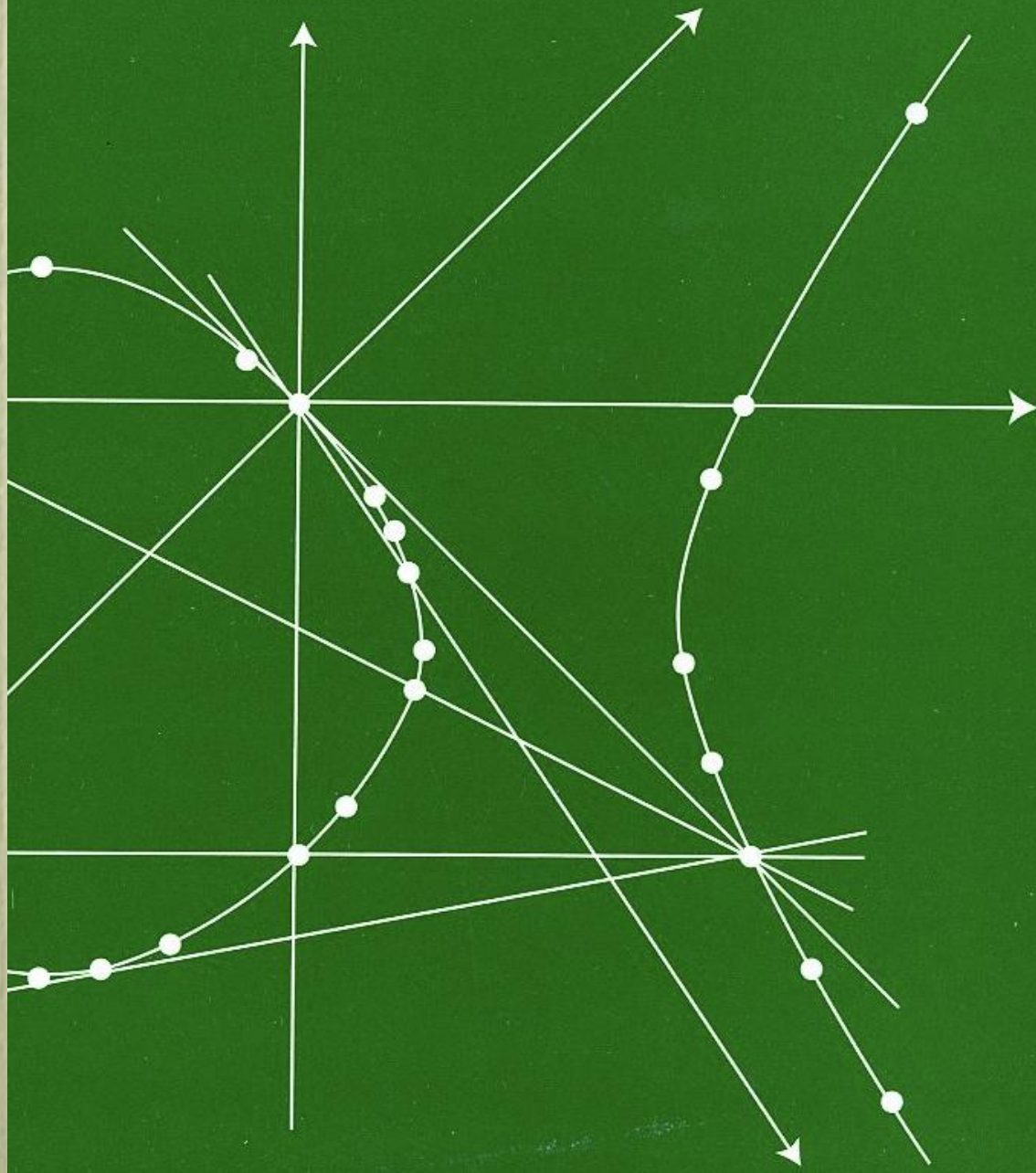


First EWM video
Also exists on DVD

The round table discussion was focused on
Women and Mathematics across Cultures.



*International Centre for Theoretical Physics
Trieste, Italy, 12-17 December 1997*



Trieste 1997

98 women from 30 countries
(150 applicants)

Most European countries
as well as

Chile, Egypt, India, Iran, Kyrgystan,
Nepal,
Tunisia, Uzbekistan, the West Bank

The ICTP supported fully three women
from developing countries to participate
in the EWM meeting and to stay ICTP
as visitors for two months.

In 1994 we set up an email net and in 1997 we announced a web page!



*Loccum 1999
50 women from 13
countries*



Michele Vergne
EMS Lecturer 2001,
Malta

*Malta 2001
76 participants from 21
countries
and 4 continents*





Cambridge 2007
85 women from 25 countries

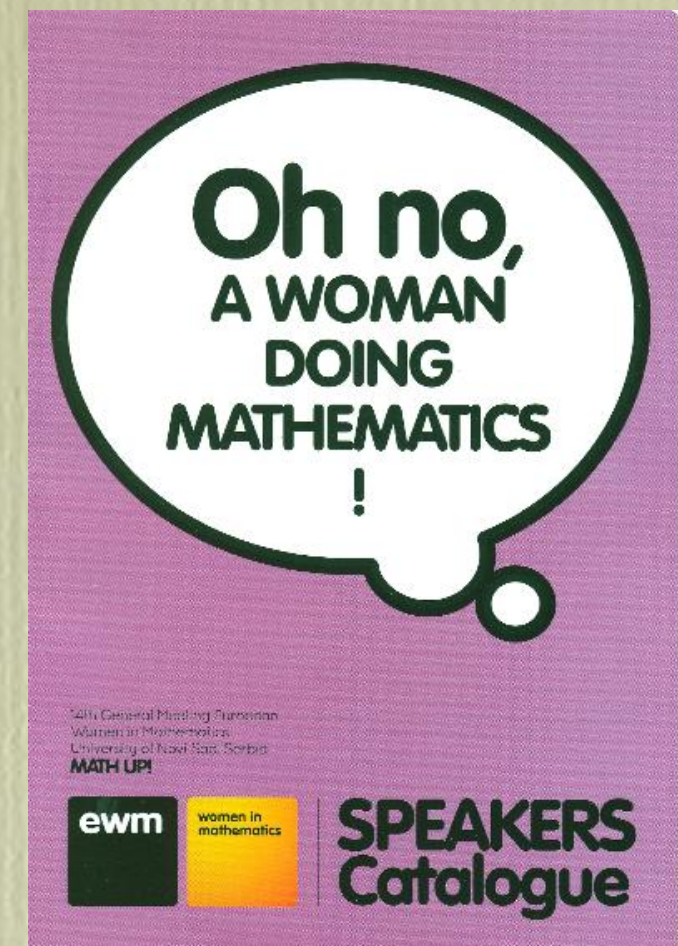
Collaboration with the Committee

Following the Cambridge meeting we worked with the EMS Women in Maths committee to set up a group of leading women mathematicians to advise on scientific programmes and speakers for EWM meetings and other related events. We are co-ordinating about our web presence and other matters.

EMS Women in Maths

EMS-EWM Joint Scientific Committee

- Viviane Baladi (ENS, Paris)
- Eva Bayer-Fluckiger (Lausanne)
- Christine Bessenrodt (Hannover)
- Alessandra Celletti (Rome)
- Cornelia Drutu (Oxford)
- Isabelle Gallagher (Paris) Chair
- Sara van de Geer (Zurich)
- Antonella Grassi (U. Penn, USA)
- Ursula Hamestädt (Bonn)
- Dusa McDuff (Stony Brook, USA)
- Ragni Piene (Oslo)
- Ulrike Tillmann (Oxford)



In 2009 we had a wonderful meeting in Novi Sad, Serbia.
70 women from 25 countries came.

Ingrid Dabechies 2009 EMS lecturer gave 3 of her lectures at our conference.

All lectures were filmed and there is an EWM promo video on YouTube.



One of the main pleasures we have had from EWM has been working with and getting to know so many wonderful women from so many different places and backgrounds. It has been enormous fun and has formed a wonderful and rich backdrop to our mathematical lives.

We are always pleased when people want to get more involved.

EWM can't survive without the active involvement of its members. EWM is what we make it!

If you would like to be more involved in the organisation in any way or to share your ideas, do let us know!