# Presentation of EWM and AWMA 

European Women in Mathematics (1986-)
African Women in Mathematics Association (2013-)

Marie-Françoise Roy, Women in Mathematics Seminar Konstanz, 2014

# I : A pictorial history of EWM 

Set by Bodil Branner and Caroline Series

Presented at EWM General Meeting at Barcelona, September 2011

Updated by Marie-Françoise Roy, AIMS South-Africa, 2013

Konstanz, 2014


## European Women in Mathematics (EWM)

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 several hunder members and 32 coordinators in 27 countries

- Has email net, newsletter and website


# EWM and EMS <br> (European Mathematical Society) 

Excellent cooperation
EMS has a committee for women in mathematics
EMS and EWM have a joint scientific committee
EWM organized satellite meeting at ECM Krakow
EWM funded the participation of women mathematicians at ECM Krakow (thanks to Google and Compositio)

EMS Lecturer lectures at EWM general meeting

## 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
President of IMU


Current Convenor Susanna Terracini


## Biennial Meetings

Paris 1986
Copenhagen 1987
Warwick, UK, 1988
Lisbon 1991
Warsaw 1993
Madrid 1995
Marseille, France, 1995
Trieste, Italie, 1997
Loccum, Germany 1999

Malta 2001
Marseille, France 2003
Volgograd, Russia 2005
Cambridge, UK 2007
Novi Sad, Serbia 2009
Barcelona, Spain 2011
Bonn, Germany 2013
Cortona, Italy 2015
Berlin, Germany 2016 (ECM)

## Biennial Meetings

Mathematically speaking : a wonderful opportunity to discover new topics, questions, specially naive ones, are encouraged

EMS lecturers (Tamar Ziegler 2013)
Invited lecturers with synergy between talks
Contributed lectures from young participants
Also : general assembly, forum discussion, round table

## Other EWM activities

## Summer schools

main organizors are young women mathematicians

Leyden 2011
ICTP 2013
Mittlag-Leffler 2014


## Other EWM activities

## 레II

25th Anniversary

EUROPEAN WOMEN IN
MATHEMATICS
Newsletter 18
Edited by Sara Munday (University of St. Andrews, UK)
and Elena Resmerita (University of Klagenfurt, Austria)

## Newsletter

Twice a year
Portraits of women

Reports on countries

Reports on EWM
activities

## Other EWM activities



International Conference of Women Mathematicians


University of Hyderabad, India http://wwwicwm2010.org.in
最

ICWM

Hyderabad 2010

Seoul 2014

## The beginning

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

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OFGANIZED BY TRE
Agsociation for Women in Mathematicss
pamel
    WOMEN IN MATHEMATICS 
    AN INTERNATIONAL PERSFECIIVE
            EIGHT YEARS LAATER
            International Congress of Mathematiciang
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                Wednesday, August 6
    7:30-- B:30 p.m.
7:30 -- 8:30 p.m.
in
Phygical sciente Lecture Hall
Participants Include:
Josetina Alvarez-Alonao (Argentina)
Bodil Branner (Dernark)
Garle-Francoise Coste-Roy (France)
Gudrun Kylimbach (Federal Republic of Germany)
Mokunola Obibodu (Nigerla)
Pacifico (Brazil)
Thrifur- Jemnt Seberry (Australia)
Caroline Series (England)
There will be a RECEPTION 1mmediately following the
Panel Discussion.

If you are interested in more information about AWM while attending the Conference, please feel free to talk to Linda Koen
of the Local Arrangements Comnittee; Lenore Blum, Lisa Geledberg, ond
Evelyn Silvia.
association for women in mathematics
Box 178, We11e日ley College
Wellesley, Masachugetts o21s1

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# The next steps <br> BRIEF REPORT ON THE 

## Universität Ulm

pil 7 6. Kalmbach

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0-7900 Ulm, den Nov. II, 1986
Oberar Eselisberg
F:(07311176-2978
```


## Dear Cardine

th our second circular letler concerning our first meetin
of the A. W. M., Puropean Branch. It will be in

## Paris, Institut Henri Poincare (IHP),

Rue Piere et Marie Curie (near the Luxemburg)
December 13, (Saturday) 1 pm to Deccaber 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 ruke her own hotel
reservation. The tentative schedule is:
Dec. 13: 1 - $1: 45$ pm Bodil Branner "Tteration of Complex Polynomials" 2- 2:45 pm Cudrun Kalmbach "Measures and Orthomodular Space 3-6:30 pm General Meeting

Dec. 14: $10-10: 45$ am Marie-Francoise Coste-Roy "Les Ecoles Normales 1 - 1 pm General Meeting

Specific topics for the discussion (to bo completed) and general meeting are:
(a) The future of scientific education for girls.
b) Why do women tuke a longer time than men to aquire 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.
b) Vote for a con
(e) Vote for a committeo: chair, vicechair, treasurer, secretary

Volunteers until now are: B. Branner (Dermark), M.-F. Coste-Roy (France)
G. Kalmbach (W-Germany), D. Straup (England).

On behalf of the temporary committoe, sincerely yours,
(Gudrun Kalmbach)

## Paris December 1986 10 women from 5 countries



The second meeting of the Buropean Women in Mathematicy was attonded by 22 participants from nite countries and reports were given about the
A den in earh mastrity
A detailed report will be written by Catherine Goldstein, Dept. de Math. Univ. de Paris XI, f-91405 ORSAY, Cedex. It will be distributed by Marion Kimberley, Goldsmiths' College, Lewishang Way, LONDON SE14 6Nw, Brigiand.
Marion also has a inst of the national coordinatora.
Raparii Piene from Oslo Univergitet gave an invited addrass on "Some dif-ferential-seometric aspecta of algebrsic gemoetry", Sevoral committees have bean formed for special issues. The next mectinga are planned for

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

The meeting was partially supported by the Danish Ministry of Rducationa, the Danish Natural Science Resempch Councit, the Danish Social Science Research Council, the Otto Mfrroted Foundation, private domations and the Technical University of Derauark.

Kalmbel
(G. Kalmibach)

Charile Mound
(Marketa Novak)

Copenhagen December 1987 22 women from 9 countries

## Warwick

The third day of the coaference (Monday) will take the form of an open mathematical meeting. There will be talks on research mathematics given by women prominent in their fie?ds.
(iii) Meeting for local schaolgiris

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 carger

This theme was selected as a result of overwhelming demand at the last annual meeting in Copenhagen.
(iv) Business Mectings for EWM.

These will be to discuss the possibilities for future action and various organisational and constitutional questions.
(v) Sociat events.

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

10-12 DECEMLBER 1988 UNIVERRSITV of WARTWICK


This organisation is an affiliation of wormen 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 Firland, France, Greece, Italy, Netherlands, Norway, Poland, Portugal, Spain, Sweden, Switzerland, United Kindom, 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 Kimbericy, 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

##  les maths

## Getting publicity and having fun!



 venues de l'Ewoge entitre, au campus de Luminy, pour reffech


What do we want

[^0] from a maths talk?

## 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 mathematicians


Percentage of women mathematicians


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

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

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

Women and
Mathematics across Cultures
EWM - European Women in
Mathematics


First EWM video Also exists on DVD

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


## Women and Mathematics across Cultures

EWM - European Women in Mathematics

A video made by European Women in Mathematics.

Why are there many morc women mathematicians in Italy and Brazil than in Norway, England or Germany? What is it while that of Northem Europe mirigates against them?

Mathematics is a universal and cross-cultural disciplinc: European Women in Mathematics is the organisation which suppors women mathematicians right across Europe. Gathering statistics and comparing experiences raises many fascinating and unexpected questions about the effects of traditional cultural values on women's role in the modern world.
This video explores the impact of cultural differences on the female condition by allowing four women mathematicians whe have studied and worked in Europe and North and South America to tell their stories.

Following a five minute introduction to EWM, including some surprising statistics about women mathematicians in Europe, the four women recount their personal experiences.

This thought-provoking video should stimulate a novel dis cussion about the impact of cultural influences on the status of women, with implications extending well beyond the world of mathematics.

Length: 25 minutes.
Directed by Marjatta Naätäncn in collaboration with Bodil Branner, Kari Hay and Caroline Series, 1996.


## 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 EMS <br> Women in Maths 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 programs and speakers for EWM meetings and other related events.

We are co-ordinating about our web presence and other matters.

EMS-EWM joint scientific committee
See current list on
http://www.europeanwomeninmaths.org/about-us/organization


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.


## Our new website (2012)



## 2013

## ICTP summer school

5th Women in Math summer school
Mathematics of the Planet Earth

EWM general meeting in Bonn
2-6 september

## 2013 (Bonn)



## Yukari Ito

(Nagoya University) with her poster

## International networks

Association for Women in Mathematics (US)
European Women in Mathematics
International Conference of Women in Mathematics (2010, 2014)

Indian women in Mathematics
African Women in Mathematics Association

## II : African Women in Mathematics Association

Created in july 2013 at AIMS South Africa

Aims and constitution similar to those of EWM

Starting point : proportion of women in mathematics in Africa?

## CIMPA


$\begin{array}{llllll}79-84 & 85-89 & 90-94 & 95-99 & 00-04 & 05-10\end{array}$

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| 19 | 12 | 142 | 181 | 686 | 501 |
| 0.095 | 0.143 | 0.150 | 0.249 | 0.273 | 0.303 |



| 26 | 4 | 57 | 28 | 41 | 78 |
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| 52 | 33 | 274 | 115 | 119 | 179 |
| 0.333 | 0.108 | 0.172 | 0.196 | 0.256 | 0.304 |



CIMPA

## Initiatives

Committee on women and mathematics of the AMU (African Mathematical Union),

New chair Marie-Françoise Ouedraogo, from Burkina Faso Invited by EWM to come to general meeting in Barcelona, funded by CIMPA and EMS

## Initiatives



Marie-Françoise Ouedraogo

## Workshop Women in Mathematics in Ouagadoudou (Burkina Faso, 2012)

forum for the promotion of mathematics and women mathematicians in Africa
gather african women in mathematics and female Ph D students
create a permanent framework of exchanges between them.

## Program

Round table on the situation of women mathematicians in the various regions of Africa,
General audience mathematical lectures
Contributed mathematical talks by the participants

# Workshop Women in Mathematics in Ouagadoudou (Burkina Faso) 

## Participation

At least 70 people including 40 women coming from Bénin, Burkina Faso, Congo Brazzaville, Congo Kinshasa, Côte d'Ivoire, Éthiopie, France, Ghana, Kenya, Madagascar, Malawi, Mali, Maroc, Mozambique, Nigeria, Pérou, Sénégal, Tanzanie, Zimbabwe.

# Workshop Women in Mathematics in Ouagadoudou (Burkina Faso, 2012) 

## Round table

Representatives from the five regions of Africa

- Ibtissam Medarhri, Northern Africa
- Senelani Dorothy Hove-Musekwa, Southern Africa.
- Fanja Rakotondrajao, Eastern Africa
- Rebecca Walo, Centra Africa
- Marie Françoise Ouedraogo, Western Africa
$+$
- Marie-Françoise Roy, EWM convenor, CIMPA representative
- Pétronille Kafando, professor of physics


# Workshop Women in Mathematics in Ouagadoudou (Burkina Faso, 2012) 

## Recommendations <br> Women in Mathematics

- organize a permanent framework to create an « African Association for Women in Mathematics», in contact with similar organizations in the world such as European Women in Mathematics, the Association for Women in Mathematics in the USA, the association Women in Mathematics in India, and African institutions such as AMU and the African Union,
- set national or regional coordinators, a mailing list and a website,
- write a booklet in several languages promoting African women in mathematics and disseminating they realizations, so that they can be used as role models


# Workshop Women in Mathematics in Ouagadoudou (Burkina Faso, 2012) 

## Recommendations Young girls and Mathematics

- train all professors, men and women, starting from primary school professors, to gender awareness and equality among men and women, specially to avoid that young girls leave school early,
- pay a particular attention to the situation in secondary schools, which is a crucial step for keeping girls in the educational system,
- modify the methodology of teaching and promote active and participative techniques,


## Workshop Women in Mathematics in Ouagadoudou (Burkina Faso, 2012)

## Recommendations Young girls and Mathematics (cont .)

- disseminate the information on actions taken to encourage the young girls in secondary school to mathematics and generalize them to more countries. Such as: Miss Mathematics in Ivory Coast or Benin, or summer camps in mathematics in Zimbabwe,
- improve the image of mathematics by organizing popularization activities such as the mathematical week, the mathematical clubs, and pay attention to the participation of young girls,
- encourage young girls to participate in mathematics olympiads,


# Workshop Women in Mathematics in Ouagadoudou (Burkina Faso, 2012) 

## Recommendations Equality between men and women

- fight violence against young girls by enforcing existing laws and punishing professors and students involved in such violence,
- raise awareness of the importance of education to women among fathers and mothers and the whole family environment,


## Conclusion

- act in a coordinated way with all the users of mathematics and all the other scientist in an interdisciplinary framework, with active collaboration between secondary and higher education, and participation of all, men and women.


## Workshop Women in Mathematics in AIMS Muizenberg (South Africa, 2013)

## Objectives

- bring together women from various countries within the continent to a Mathematics Workshop
- presenting their work
- discussing the situation and status of women in mathematics in each of their countries and
- creating the Association of African Women Mathematicians
- update the data on African Women in the Mathematical Sciences
-part of the Mathematics of Planet Earth
(http://mpe2013.org) initiative


## Workshop Women in Mathematics in AIMS Muizenberg (South Africa, 2013)



# Workshop Women in Mathematics in AIMS Muizenberg (South Africa, 2013) 

## Participation

42 participants from at least 17 African Countries:
South Africa [ 13], Algeria [1], Benin[1], Burkina Faso [3], Cameroon [1], Cote D'IVoire [1], DRC Congo [1], Ethiopia [2], France [1], Ghana [1], Kenya [2], Malawi [1], Morocco [1], Mozambique [1], Nigeria [1], Senegal [2], South Africa [5], Tanzania [1], Uganda [1],
Zimbabwe [1].

# Workshop Women in Mathematics in AIMS Muizenberg (South Africa, 2013) 

## AWMA Constitution and Election

AWMA constitution was discussed and adopted with President - Marie-Francoise Ouedraogo (Burkina Faso)
Vice Presidents
West Africa: Joséphine Guidy-Wandja (Côte D'Ivoire)
Central Africa: Rebecca Walo Omana (D.R. Congo)
North Africa: Schehrazad Selmane (Algeria)
East Africa : Yirgalem Tsegaye (Ethiopia)
Southern Africa -Sibusiso Moyo (South Africa)
Secretary Senelani Dorothy Hove-Musekwa (Zimbabwe) Treasurer Fagueye Ndiaye (Senegal )

## Workshop Women in Mathematics in AIMS Muizenberg (South Africa, 2013)

## Ethnomathematics

Paulus Gerdes (Mozambique) « Mathematical Ideas, Creativity, and Invention in African Female Cultural Practices ».
A number of case studies from the Makwe, Tonga mat and basket weavers in Mozambique was presented.
Illustrates universal contribution of women to culture and mathematics

## Workshop Women in Mathematics in AIMS Muizenberg (South Africa, 2013)

## History of African Women in Mathematics

Joséphine Guidy-Wandja gave a talk « Women and Mathematics: History and Nowadays Situation ».
«African Women, constituting half of the population, are still strongly underrepresented in scientific and technological careers where mathematics plays an important role. »

According to some (very incomplete) sources 10\% of african mathematicians are women.

# Workshop Women in Mathematics in AIMS Muizenberg (South Africa, 2013) 

## History of African Women in Mathematics Afro American Women in Mathematics in the US

1943 Uphemia Lofton Haynes PhD at Catholic University 1949 Evelyn Boyd Granville PhD at Yale University. 1950 Marjorie Lee Browne PhD at University of Michigan. 1960, Argelia Velez-Rodriguez PhD at University of Havana. 1961 Sadie Gasaway PhD at Cornell University. 1961 Lillian K. Bradley PhD at University of Texas 1962 Gloria Conyers Hewitt PhD at University of Washington -Seattle 1962 Louise Nixon Sutton PhD at New York University.
1965 Beryl Eleonor Hunte PhD at New York University 1965 Thyrsa Frazier Svager PhD at au State University de Ohio 1966 I Eleanor Dawley Jones PhD at Syracuse University 1966 Shirley Mathis McBay PhD at University of Georgia 1966 Vivienne Malone Mayes PhD at University of Texas à Austin. 1967 Geraldine Darden PhD at Syracuse University.
1968, Mary Lovenia DeConge-Watson PhD at St. Louis University.
1969, Etta Zuba Falconer PhD at Emory University.
1970, Genevieve Knight PhD (Math Education) at University of Maryland.
1971 Joella H. Gipson PhD at University of Illinois
1971 Dolores Spikes PhD at Louisiana State University).
1972, Rada Higgins McCreadie PhD State University de Ohio.

## Workshop Women in Mathematics in AIMS Muizenberg (South Africa, 2013)

## History of African Women in Mathematics Some African Women in Mathematics

1963, Grace Lele WILLIAMS from Nigeria Ph D in Math Education at University of Chicago. 1971, Joséphine GUIDY-WANDJA from Côte d'Ivoire "Doctorat de 3ème cycle" at University Paris VII. France
1985. Kewamoi SOGOMO from Kenya Ph D in Math Education at Patrice Lumumba

University at Moscow in Russia
1991, Okikiolu Kent from Nigeria Ph.D at UCLA
1996, Kbenesh W BLAYNEH from Ethiopia Ph D
1996, Wade Aîssa from Senegal Ph D at University pf Montpellier, France.
1999 Marie-Françoise OUEDRAOGO from Burkina Faso Doctorat de 3ème cycle" at
Ouagadougou University .
2001, Patricia ZOUNGRANA from Burkina Faso Doctorat de 3ème cycle at Ouagadougou
University .
2002, Sarifa Abdul MAGIDE-FAGILDE from Mozambique Ph D University of the Western
Cape (Bellville, South Africa) in Math education
2002. Iris Gugu MOCHE from South Africa Ph.D at Howard University.
2002. Kgomotso Gertrude GAREGAE from Botswana Ph D University of Manitoba
(Winnipeg, Manitoba, Canada) in Math educatio
2003. Janvière NDIRAHISHA from Burundi Ph D University of Antwerp (Antwerp, Belgique)
2003. Miranda ljang TEBOH-EWUNGKEM from Cameroun Ph D at Leligh University
(Bethlehem, Pennsylvania, USA)
2004. Kizito NAMUKASA from Ouganda. Ph D at University of Alberta in Math Education

## Workshop Women in Mathematics in AIMS Muizenberg (Kenya, 2015)

## Projects

Organize new workshop in Kenya
Booklet of rôle models with african women
mathematicians


[^0]:    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, December that future particlpants think over these questions before talks which we hope may hetp youre prepared a little questionnaire about certain points. Please try tetp you define your needs and your thoughts on types of talks and seminars to fill it out at some talks you may attend (different fo fill it out several times could inspire different answers, so dont hesitate receive your answers (and commentaries) bers of paper!). We would like to

