

International Organization for Medical Physics



Women Group

# PARTICIPATION OF WOMEN MEDICAL PHYSICISTS IN EUROPEAN CONFERENCES

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# Introduction – Purpose

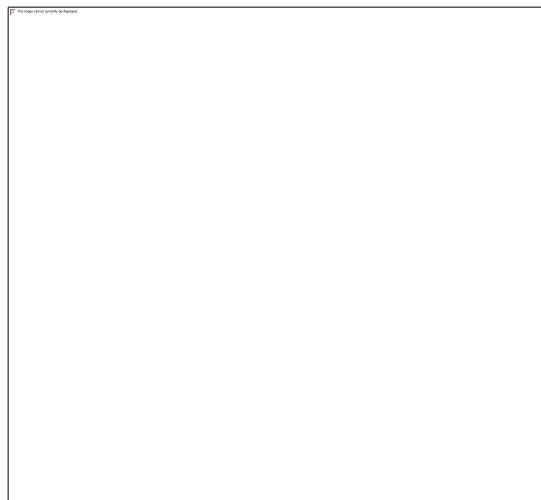
The purpose is to evaluate the percentage of women Medical Physicists (MPs) that have participated in European scientific events.





# Introduction

- The total number of medical physicists (MPs) is 17.024 (data from 66 countries).
- Of these, 4.807 (28%) are women.
- Percentages of female MPs in different regions:
  - ✧ USA: 21%
  - ✧ Asia: 35%
  - ✧ Africa: 33%
  - ✧ Latin America: 24%
  - ✧ **Europe: 47%**





## Data Collection (1/2)

- 8<sup>th</sup> European Conference on Medical Physics (ECMP), 11-13 September 2014, Athens, Greece.
- 3<sup>rd</sup> ESTRO FORUM, PHYSICS BIENNIAL MEETING, 24-28 April 2015, Barcelona, Spain.
- 1<sup>st</sup> European Congress of Medical Physics (ECMP), 1-4 September 2016, Athens, Greece.



## Data Collection (2/2)

- ESTRO School “ Physics for Modern Radiotherapy” - joint course for clinicians and physicists, 11-15 September 2016, Athens, Greece.
- ESTRO School “Imaging for Physicists”, 18-22 September 2016, Florence, Italy.
- ESTRO School “ Comprehensive Quality Management in Radiotherapy- Risk Management and Patient Safety ”, 1-4 October 2016, Avignon, France.

# 8<sup>th</sup> ECMP 2014

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CATEGORY	FEMALE PARTICIPANTS
ORGANIZING COMMITTEE	36.4%
SCIENTIFIC COMMITTEE	14.3%
INVITED SPEAKERS	25%
ORAL PRESENTATIONS	33.8%
SATELLITE LECTURES/SATELLITE SYMPOSIUMS	23.5%
REVIEW COURSES	33.3%
SYMPOSIUMS	18.5%
CHAIRPERSONS	23%
EFOMP WORKING WITH THE EC	20%
EFOMP MEETS MEFOMP	50%
WORKSHOPS-ROUND TABLES	18.8%

# 8<sup>th</sup> ECMP 2014

- Participation of women MPs ranged from 14.3% - 50%.
- Women MPs participation was lowest in the scientific committee, symposiums and workshops/round tables.
- The categories with the greatest participation (but still  $\leq 50\%$ ) were: organizing committee, oral presentations, review courses and the meeting of EFOMP-MEFOMP.



# 3<sup>rd</sup> ESTRO FORUM 2015

## PHYSICS BIENNIAL MEETING

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CATEGORY		FEMALE PARTICIPANTS
SCIENTIFIC ADVISORY GROUP FOR THE PHYSICS BIENNIAL MEETING		29.4%
TEACHING LECTURE	CHAIR	37.5%
	INVITED	16.7%
SYMPOSIUM	CHAIR	40%
	CO-CHAIR	25%
	INVITED	22.2%
PROFFERED PAPERS	CHAIR	33.3%
	PRESENTATIONS	32.9%
POSTER DISCUSSION	CHAIR	0%
	PRESENTATIONS	41.9%
DEBATE	CHAIR	100%
	CO-CHAIR	0%
	INVITED	0%





# 3<sup>rd</sup> ESTRO FORUM 2015 PHYSICS BIENNIAL MEETING

- The scientific advisory group for the Physics Biennial Meeting consisted of 29.4% women MPs.
- Participation of women MPs in chair/co-chair 30.6%
- The percentage of invited women MPs were 16.7% and 22.3% for teaching lectures and symposia respectively while proffered oral presentations were 32.9%.

# 1<sup>st</sup> ECMP 2016

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CATEGORY	FEMALE PARTICIPANTS
PRESIDENT/ VICE PRESIDENT	50%
CONGRESS PROGRAM COMMITTEE	14.3%
LOCAL ORGANIZING COMMITTEE	60%
SCIENTIFIC COMMITTEE	16.7%
AWARDED	0%
INVITED SPEAKERS	16.7%
ORAL PRESENTATIONS	32.9%
SATELLITE LECTURES	25%
MODERATORS	30.9%
REFRESHER COURSES	25%
JOINT SESSIONS	26.9%
SPECIAL SESSIONS	26.7%
ECMP WELCOMES ITALY	22.2%

# 1<sup>st</sup> ECMP 2016

- Participation of women MPs in this congress' categories ranged from 0% - 60%.
- The vice president of the congress was female.
- Participation of women MPs was lowest in the congress program committee, scientific committee, and as invited speakers.
- The categories with the greatest participation were: local organizing committee, oral presentations and moderators.

# ESTRO SCHOOLS 2016

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SCHOOL	TITLE	CATEGORY	FEMALE PARTICIPANTS
11-15 September 2016	Physics for modern Radiotherapy	Course Director	0%
		Teachers	33.3%
		Local Organizers	100%
		Participants	53%
18 –22 September 2016	Imaging for Physicists	Course Director	0%
		Teachers	33.3%
		Local Organizers	100%
		Participants	47.5%
1 – 4 October 2016	Comprehensive Quality management in Radiotherapy-Risk management and patient safety	Course Director	0%
		Teachers	33.3%
		Local Organizers	0%
		Participants	54.8%



# ESTRO SCHOOLS 2016

- Women MPs did not participate as course directors in these three courses.
- Participation of women MPs as teachers was 33.3%.
- In 2 out of 3 courses the local organizers were all female MPs.
- The percentage of female MPs attending the classes was approximately 50%.

# OVERALL RESULTS

CATEGORY	MEAN VALE
ORGANIZING COMMITTEE	47.36%
SCIENTIFIC COMMITTEE	18.66%
INVITED SPEAKERS	22.3%
ORAL PRESENTATIONS	33%
SYMPOSIUMS	18.5%
CHAIRPERSONS - MODERATORS	33.3%
SATELLITE LECTURES/SATELLITE SYMPOSIUMS	24.25%
REVIEW/REFRESHER COURSES - TEACHERS	25%
COURSE DIRECTORS	0%
PARTICIPANTS (COURSES)	53%



# OVERALL RESULTS

INVITED SPEAKERS	PROFFERED SPEAKERS
22.3%	33%

Australasian College of Physical Scientists and Engineers in Medicine

INVITED or KEYNOTE SPEAKERS	PROFFERED SPEAKERS
13%	28%

Crowe, S.B., Kairn T., Australas Phys Eng Sci Med  
2016 Jun, 39(2) 525-32



# CONCLUSIONS

- > 50% of participants in Courses are women MPs
- they don't have an equally important recognition in special invited roles in conferences.







# CONCLUSIONS

- They are still under-represented in scientific committees, invited speakers, symposiums and course directors.

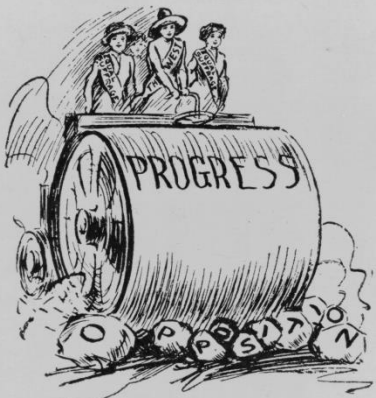




# CONCLUSIONS

- Women MPs major involvement seems to be in organizing committees





THE STEAM ROLLER

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THANK YOU

Marie Curie was the first:

- The first woman of the degree in physics.
- The first woman to graduate in France.
- The first woman to obtain a Nobel Prize.
- The first woman to obtain a chair at the Sorbonne.
- The first scientist to obtain two Nobel Prizes

