

WOMEN IN STEM NETWORKS & CLIMATE CHANGE

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Intersectionality of Gender, Climate Change and Engineering



IDCC

Climate Change 2021: IPCC AR6

SYNTHESIS REPORT WORKING GROUPS ACTIVITIES NEWS CALENDAR

Sixth Assessment Report

The Working Group I contribution to the Sixth Assessment
Report is now out

Captured 2021-09-16 from https://www.ipcc.ch/assessment-report/ar6/

WORKING GROUP I CONTRIBUTION TO THE SIXTH ASSESSMENT REPORT

- Change in earth's climate in all region of the world more vivid
- Strong and sustained reduction in CO₂ emission and greenhouse gases(GHG) can limit climate change
- Emission of GHG from human activities is responsible: human influence is undisputable



- ✓ Climate change is a global issue : everyone is affected
 - → Immediate Action is needed.
- ✓ Women are more vulnerable to the climate change effects
- → Gender-sensitive strategies to respond to crisis caused by climate change
- ✓ But, women are also effective actors or agents of change for mitigation and adaptation to climate change
- ✓ Women scientists and engineers should be fully utilized in tackling Climate Change issues



- *4 Critical building blocks in responding to Climate Change
- ✓ Mitigation: curbing greenhouse gas emissions from human activities
- ✓ Adaptation : Reducing vulnerability and building resilience in sectors like water, agriculture, human settlement
- ✓ Technology transfer: take into account women's needs/ make use of women's knowledge and expertise
 - ✓ Women's involvement ensure user friendly, affordable, effective and sustainable.
 - ✓ Gender perspectives in national policies, action plans etc. use of sex aggregated data, gender-sensitive benchmarks and indicators.
 - ✓ Consultation and participation of women in climate change initiatives must be ensured and role of women's group and networks strengthened. (women under represented in decision making process.
- ✓ Financing : to be flexible to encompass women's needs. Women's participation in developing funding criteria/ gender analysis

Climate Change 2021 & Women in STEM

- *Critical building blocks in responding to Climate Change
- ✓ Technology transfer: take into account women's needs/ make use of women's knowledge and expertise
 - ✓ Technology is never gender neutral/ when coupled with negative effects of the changing climate, even less gender sensitive.
 - ✓ Technology increasingly relevant in adapting and mitigating climate change (UNFCC)
 - ✓ Equal inclusion of women and men in all aspects of climate change projects



- ✓ Science-led solutions play a critical role: not limited to climate science but covers all scientific disciplines
- ✓ The Royal Society's statement on 12 specific areas critical for achieving net zero emission by 2050: Climate modeling, Carbon Cycle, Digital Technology, Batteries, Heating and Cooling, Hydrogen, Carbon capture and storage, Climate resilience, Land use and the global food system, Health, Policy and Economics
 - → We need to get more women into these fields

Sources:

https://royalsociety.org/topics-policy/projects/climate-change-science-solutions/
https://royalsociety.org/-/media/policy/projects/climate-change-science-solutions/climate-science-solutions-overview.pdf



- ✓ Importance of Networking: International Collaboration
- ✓ Women in STEM networks play an important role in overcoming barriers and advancing opportunities for women and girls
- ✓ But women in STEM networks can do more than dealing with issues to overcome gender barrier
- ✓ Women in STEM networks can bring "changes" through communication and cooperation
- ✓ "....So, COMMUNICATION proved an excellent choice for the theme of the conference and must continue as a core objective for us all. We must communicate with each other and not lose the valuable links forged at ICWES9. We must communicate with the rest of the world to show how we, as women, scientists and engineers, can help towards a secure and comfortable future."

_ statement by Dorothy Hatfield, President WES



International Network of Women Engineers & Scientists

INWES is a global network of organizations of women in STEM, with Organizational Members, Corporate Members, University Members, and Individual Members, all together representing about 250,000 women from over 40 countries worldwide.

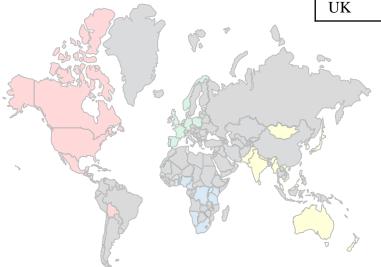
"To build a better future worldwide through full and effective participation of women and girls in all aspects of STEM"



List of INWES Member Countries*

Americas	
Canada	*
Bolivia	
USA	
Mexico	

INWES-Europe	
Cyprus	*
France	
Germany	
Portugal	
Spain	**
Switzerland	+
Norway	
UK	



ARN	
Burkina Faso	*
Camaroon	*
Ghana	*
Kenya	
Namibia	*
Nigeria	
Senegal	*
Tanzania	
Uganda	8
Congo	*
South Africa	
Middle East &	
North Africa	

UAE

Tunisia

APNN	
Australia	*
Bangladesh	
India	•
Japan	
Korea	11011
Malaysia	(*
Mongolia	
Myanmar	*
Nepal	*
New Zealand	
Pakistan	C
Philippines	
Sri Lanka	
Taiwan	*
Vietnam	*



- 1964: the Continuing Committee for the International Conferences for Women Engineers and Scientists (ICWES)
- 2002: INWES established with UNESCO grant
- 2004: Incorporated in Canada as a not-for-profit corporation
- 2008: Official NGO partner of the operational type with UNESCO
- 2017: Consultative status of UN Economic and Social Council

"As a solution to tackle the issue of gender imbalances in STEM, UNESCO aims to support and promote networks of women scientists in various scientific domains and regions, such as, among others, ... the International Network of Women Engineers and Scientists."



- 1. Become an influential voice on STEM issues for the benefits of women and society: → gender perspectives in climate change issues
- 2. Increase the presence of women in mainstream STEM decision-making bodies → gender perspectives in climate change policies
- 3. Promote exchange of information and best practices for outreach and professional development → Information exchange on climate change issues
- 4. Provide opportunities for networking worldwide
- 5. Support a range of global and regional projects
- 6. Expand the opportunities for education and careers in STEM for girls and women. → develop education resources on climate change issues



Thank you!

Please join us in "building a better future worldwide through the full participation of women and girls in STEM" ...especially in tackling climate change

http://www.inwes.org