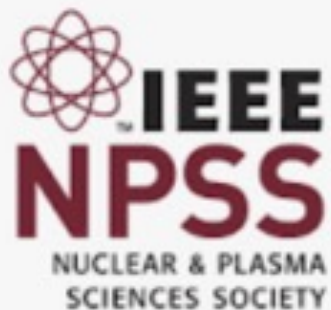


# Welcome to the Women in Engineering STEM event In Rabat



3<sup>rd</sup> of July 2024

Cinzia Da Vià  
The University of Manchester, UK



# Spirit of the WIE event

- The WIE event at the NPSS EDUCOM Instrumentation School in Rabat is an empowering initiative designed to inspire and support female and under-represented students pursuing careers in STEM subjects.
- This event is open to everybody and features keynote speeches by accomplished professionals, a discussion session and a get together event.
- Attendees will have the opportunity to network with the WIE and School speakers, gain insights into the latest STEM trends and participate in mentorship sessions.
- The event aims to promote diversity in Science, Technology, Engineering and Mathematics, encourage under-represented students and young professionals to break barriers, and foster a supportive community for future professionals in the field.

# Programme

## Moderator: Cinzia DaVià

17:00-17:05 Welcome Address

17:05-17:20 Welcome and introduction on IEEE WIE

17:20-17:40 My Life as a Pediatric Oncologist

17:40-18:00 Women as Environmental Protection Ambassadors

18:00-18:15 Women in STEM in Morocco and Africa

18:15-17:30 Women in STEM in Vietnam and South-East Asia

18:30-18:45 Women in Spain and Europe

18:45-19:15 Intervention from Students and Young Professionals

**19:30-21:00 Party**

School Organisers

Prof. Cinzia DaVia

Prof. Fouzia MSEFER ALAOUI

Prof. Dr. Naima HAMOUMI

Prof. Naïma EL KHAYATI

Dr. Trang Hoang

Dr. Andrea Gonzalez-Montoro

## Some Information about myself

- Professor at The University of Manchester (UK)
- Visiting Professor at the University of Stony Brook, New York, USA
- Member of the ATLAS Collaboration at CERN – LHC
- Chief editor Frontiers in Physics, Radiation detectors and Imaging
- IEEE WIE International Committee Member @WIE@25 Chair
- Member of the IEEE TAB Program on Climate Change
- IEEE NPSS WIE Liaison (2026-2023)
- Distinguished Lecturer and Organizer of the IEEE NPSS Instrumentation School

### Scientific Interests:

- Radiation Detector development : silicon pixels, fast timing
- Radiation effects in silicon, Lazarus effect
- 3D sensors for high energy physics and other applications
- 3D printed detectors, Vertical integrated microsystems
- Quantum Imaging



*With Joyce Mwangama  
WIE South Africa and  
R8 WIE Rep 2018  
Organizing a WIE event with local  
students  
Cape Town July 2018*



## Fouzia MSEFER ALAOUI

2024

- Moroccan, Female, 75 years old
- Married and mother of four children and four grand children
- Professor of Pediatrics at Medical University of Rabat
- Head of the first Pediatric Cancer Unit at Rabat's Children Hospital (1983 – 2005)
- Founder in 1986 of the Avenir Association (association of parents and friends of children with cancer) which built "La Maison de l'Avenir", a home for children with cancer families
- Founder and first President of the Moroccan Society of Pediatric Oncology (1996 - 2004)
- Continental President of SIOP in Africa (2004 – 2006)
- Vice-President of the French African Pediatric Oncology Group (2000 - 2006)
- Coordinator of Childhood Cancer Early Diagnosis program
- Member of Mohammed V for Solidarity Foundation, Lalla Salma Foundation against cancer, and the National Observatory of the child rights.
- Author of three books: "Early diagnosis of childhood cancer" in 2008, "Childhood leukemia, by words and pictures" in 2010 and "For the life of children with cancer" edited in March 2022
- Email : [mseferalaoui@gmail.ma](mailto:mseferalaoui@gmail.ma)



## Prof. Dr. Naima HAMOUMI

[https://www.researchgate.net/profile/Naima\\_Hamoumi2](https://www.researchgate.net/profile/Naima_Hamoumi2)

[https://scholar.google.com/scholar?hl=it&as\\_sdt=0%2C5&q=naima+hamoumi&oq=](https://scholar.google.com/scholar?hl=it&as_sdt=0%2C5&q=naima+hamoumi&oq=)

Prof. Dr. Naima HAMOUMI is a specialist in marine, terrestrial and environmental Geosciences. She is graduated with a “Doctorat d’Etat ès Sciences Naturelles” (1988), at Louis Pasteur University of Strasbourg France, a Ph.D thesis (Doctorat de 3ème Cycle) in sedimentology (1981) and a Master (Diplôme d’Etudes Approfondies) in oceanography (1978) at University of Western Britany and IFREMER at Brest, France

She is the national coordinator of the “Moroccan Network of Marine Sciences and Engineering MARSIMER” since 2014 and an associate researcher at IRES. She also served as full Professor at the Faculty of Sciences, Mohammed V University of Rabat (1981-2021), Consultant for the Mohammed VI Foundation for Environmental Protection (2023-2024), Technical advisor of the Minister Delegate, in charge of scientific and technical research (2003-2004) and Consultant for the National Society for the Strait of Gibraltar studies (SNED), within the framework of the Europe-Africa Fixed Link Project through the Strait of Gibraltar from 1989 to 1997

At Mohammed V University, Naima Hamoumi was the head of the Research group: "Oceanology - Dynamics of Sedimentary Series - Environment" (ODYSSEE), the Faculty Advisor of ENACTUS / FSR, and the Mentor of the Plastic Arts Club FSR and she assumed scientific responsibilities within the framework of international and national scientific programs: GBCP, COCARDE, TTR and IGCP/UNESCO/IUGS consortium.

She participated in several oceanographic surveys and she has carried out geological studies in: the tropical North-West Atlantic, the Strait of Gibraltar, the Atlantic and Mediterranean oceanic margins of Morocco, the Mediterranean coastline between Sâaidia and the “Cap des Trois Fourches”, the lagoon of Nador, the Meso-Cenozoic of the North-Western Rif, the Lower Paleozoic of Morocco, the Dakhla region, and the Fkih Ben Salah, Khenifra and Ain Kansra regions. These studies have been the subject of several publications, conferences and communications at numerous national and international conferences. She also has to her credit the supervision of research works in the framewok of Master PhD and “Doctorat d’Etat” and the setting up and leading of innovative specialized and /or applied training programs: Doctoral training: “Past and present shelf environments” (1997 – 2010), Doctoral training “Oceanology - Geodynamic and valorization of sedimentary basins” (1989 – 1996), DESA (Master) “Geodynamic and valorization of the oceanic margin” (2005-2008), DESS (Applied Master) “ Integrated management of marine and coastal environment” (2000 - 2004 ), CEA (Master): Geodynamic of sedimentary basins (1989 - 1991 ), Bachelor in Applied Sciences “Geodynamic and valorization of marine and continental environments " (1997- 2005).

Naima Hamoumi was awarded the Wissam Malaki “Al Istihkak Al Watani” in 2016 and she is the recipient of several distinctions including the "Certificate of Appreciation of the International Commission on Oceanography (IOC / UNESCO)" in 2006 for contribution to IOC activities and capacity building in Morocco in the field of oceanology, a tribute ceremony organized by the Ministry of Energy, Mines and Sustainable Development, for its contribution in Geosciences in 2018 and the Distinction of the city of Tarija and the Cercado Province dedicated to the best scientists, on the occasion of the XII International Geology Congress of Bolivia in 1996

Professor Naima El Khayati

## Dr. Hoang Thi Kieu Trang



Dr. Hoang Thi Kieu Trang earned her PhD in Experimental High Energy Physics from Florida State University, where she conducted her doctoral research as a member of the D0 collaboration at Fermi National Accelerator Laboratory in Chicago.

She currently serves as a faculty member at the University of Science under Vietnam National University Ho Chi Minh City.

Her research interests involve Monte Carlo simulation, data analysis, image processing, and designing interactive online laboratories. Dr. Trang also has experience developing medical physics education programs during her time at the University of Science. Additionally, since 2019 she has lectured at several instrumentation schools organized by the IEEE-Nuclear and Plasma Sciences Society, sharing her expertise on these topics.





Dr. Andrea Gonzalez-Montoro, PhD in Physics,  
born in Valencia (Spain) in 1992

During my 10-year academic career, I have been mostly working on the study and improvement of the instrumentation associated to Positron Emission Tomography (PET) detector blocks. I have contributed to various well recognized items in the imaging research area, but especially in PET detector development and their assembling into fully-operating systems.

From 2014 to February 2019, I was master and then, PhD candidate at the Institute for Instrumentation in Molecular Imaging (i3M) in Valencia, Spain. At i3M I was involved in building dedicated PET scanners. I got my PhD diploma in Physics in December 2018 with Cum Laude and international distinction.

In March 2019, I joined the Molecular Imaging Program at Stanford University as a Postdoctoral Research Fellow. At Stanford, my research focused on the design and implementation of high efficiency TOF-PET detector blocks. Additionally, I investigated the use of Cherenkov radiation to enhance the temporal resolution of PET scanners based on BGO crystals.

In January 2023 I got a Ramón y Cajal postdoctoral position at the Spanish Research council (CSIC) and rejoined the i3M, where I am currently involved in the development of novel edgeless PET inserts and also on the design and characterization of a detector block for a total-body PET scanner that will make a qualitative leap in the sensitivity of PET scanners.

# IEEE Women in Engineering

IEEE Women in Engineering (WIE) is a global network of IEEE members and volunteers dedicated to promoting women in STEM, and inspiring girls around the world to follow their academic interests in a career in STEM.

**Our Mission:** To connect, support, and inspire women and girls worldwide, and facilitate their recruitment and retention in STEM fields, fostering technological innovation and excellence for the benefit of humanity.



<https://wie.ieee.org/>



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## About IEEE WIE

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## IEEE Women In Engineering Highlights



### IEEE WIE Chair's Message – April 2024

Read a message from Celia Shahnaz, IEEE WIE Chair 2023-2024 as she recaps important WIE happenings and

A Recap of Important IEEE WIE Happenings and shares information about future events/plans of Women in Engineering.

[Read](#)

TryEngineering and IEEE Women in Engineering (WIE) are looking for inspiring hands-on activities developed by WIE Members! These activities will be shared on TryEngineering, so that other volunteers and educators around the globe can use the resources in their own local STEM outreach programs.

[Learn more about how to submit](#)

IEEE WIE understands that family care responsibilities (children, seniors, partner) can be a barrier to attending conferences. That's why we're introducing the IEEE WIE Family Cares Grant Program, covering up to \$1000 of family care expenses.

[Apply](#) starting 3 June and attend your next IEEE conference, worry-free!

### IEEE WIE Climate Tech Big Idea Pitch Competition!

Students, postdoctoral fellows, and young professionals (defined as within 15 years of a B.Sc. degree by the IEEE YP program) – start giving fuel to that big idea of yours!

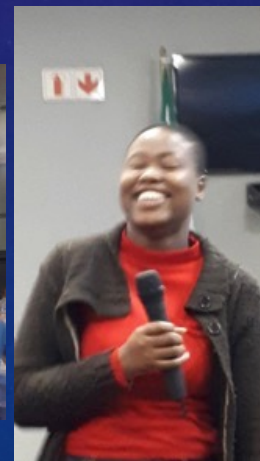
[Click here for more details](#)

## IEEE WIE in numbers:

- **28,000+** members in more than **100** countries
- **1000+** Affinity Groups and Student Branch Affinity Groups
  - Affinity groups provide the opportunity for members to network at a local level.
- **50+** WIE Committee volunteers driving global activities
- **500+** Conference attendees
- **10** Summits on **5** continents
- **5** Annual IEEE WIE awards
- The award-winning *IEEE WIE Magazine*...**and much more!**



# EDUCATION: NPSS WIE events at Conferences and Schools



Dakar, Sénégal

# SUPPORT: IEEE WIE Member & Affinity Groups

- **Travel Grant program**
  - Support in the form of grants for IEEE WIE members to attend and present at IEEE sponsored conferences or IEEE WIE sponsored events.  
<https://wie.ieee.org/grantsandscholarships/>
- **Initial & Special Funding**
  - IEEE WIE encourages the development of local activities that add professional value to IEEE WIE members and are aligned with our mission.
  - Sample activities include: IEEE WIE workshops, IEEE WIE panel sessions at IEEE Society conferences, joint IEEE WIE/Young Professionals activities, etc. <https://wie.ieee.org/funding/>
- **Promotional Items**
  - Requests for WIE promotional items at events to bring visibility to the WIE program  
<https://wie.ieee.org/wie-promotional-material-request-form/>

# IEEE WIE International Leadership Summits



of IEEE WIE volunteers, WIE Summits have been extremely successful and have made an outstanding impact on communities around the globe!

## 2024 WIE ILS Locations

### Region 6

- Richland, Washington, USA – 1-2 August

### Region 7

- Calgary, Canada – 2-4 May

### Region 8

- Dubai, UAE – 25 April
- Cairo, Egypt – 21-22 September

### Region 9

- Guatemala City, Guatemala – 7 May

### Region 10

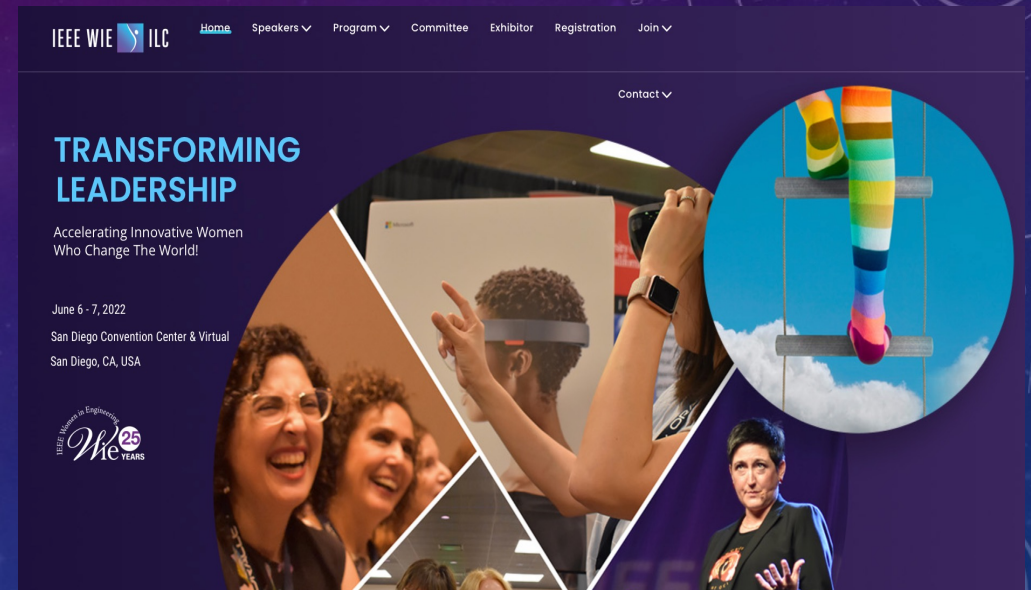
- Islamabad, Pakistan – 11 – 13 October
- Chennai, India – 3 – 5 October
- Delhi/NCR, India – 10 – 11 August
- Ahmedabad, India – 8 – 9 July





# IEEE WIE International Leadership Conference (ILC)

- Annual IEEE WIE ILC
- Provides leading-edge professional development for mid to senior-level technical professionals
- 120+ speakers; 50+ countries; 425+ companies/organizations; 90+ professionals
- Focus Areas: Innovation, Empowerment, Executive Leadership, Disruptive Technology



<http://ieee-wie-ilc.org>



Get Involved!!