

## Conference program

### July 15 (Tuesday), 2008

#### Opening ceremony

17:45-18:30; CCIC Main Hall, Lille

#### Opening lecture

##### **IL01** *Economics vs. Biology in the Global Economy*

**Pietra RIVOLI**

Professor of Finance and International Business, Georgetown University, USA.

### July 16 (Wednesday), 2008

#### Invited lectures: ICT and women's work

8:30 – 10:00 ; Polytech, rooms 1,2,3

**Chair** : Petra MAYERHOFER (Germany)

##### **IL02** *Technical but not very... Employers' constructions of the employment of highly qualified women in Information Technology, Electronics and Telecommunications*

**Judith GLOVER**

Professor of employment studies, University of Roehampton, UK.

##### **IL03** *Women's work in ICTs in Europe: how to explain disparities?*

**Patricia VENDRAMIN**

Project manager, Fondation Travail-Université of Namur, Belgium

#### Youth Forum

10:00 – 12:30; Polytech, room 3

**Chair** : Marion RIGAUD (France) and Marie HERNIGOU (France)

#### Thematic session A1: Careers of women in high-tech

10:30 – 12:30; Polytech, room 1

**Chair and introduction** : Florentina POPOVICI (Google, USA)

##### **GC-01-01** *Women in sciences and high technology in 3 baltic countries*

**Erna KARULE** (Lettonie)

##### **GC-01-02** *The place of women engineers in knowledge intensive firms and persistence of gender gaps*

**Stéphanie CHASSERIO** (France)

##### **GC-01-03** *Opportunities for women engineers in the Nigerian electricity industry*

**Nafisatu ALI** (Nigeria)

##### **GC-01-04** *Careers of women engineers in academic technology research*

**Christine WAECHTER** (Austria)

**Thematic session A2: Gender issues in scientific research**

10:30 – 12:30; Polytech, room 2

**Chair :** Durdana HABIB (Pakistan)

- GG-01-01**    *The entanglement of gender and physics: beings, knowledges and practice*  
**Helene GOETSHEL** (Sweden)
- GG-01-02**    *Bias literacy as a policy strategy*  
**Ruta SEVO** (USA)
- GG-01-03**    *Individual and institutional strategies for the advancement of women in science and engineering*  
**Jane DANIELS** (USA)
- GG-01-04**    *Gender bias in time organization of scientific work*  
**Nuria VALLES** (Spain)
- GG-01-05**    *Women in decision-making processes*  
**Giovanna AVELLIS** (Italy)
- GG-01-06**    *Gender and research quality*  
**Ulf SANDSTROM** (Sweden)

**Thematic session A4: Y a t-il désaffection des jeunes femmes pour les sciences, techniques, ingénierie et mathématiques (STIM)?**

10:30 – 12:30; Polytech, room 4

**Présidente:** Véronique CHAUVEAU (France)

- GW-01-01**    *Technicienne des administrations ou hacker ? Quelles représentations pour les professionnel-le-s de l'informatique?*  
**Isabelle COLLET** (France)
- GW-01-02**    *Les facteurs impliqués dans la sous-représentativité des femmes en sciences et génie et l'influence des stéréotypes*  
**Nadia GHAZZALI** (Canada)
- GW-01-03**    *Le portrait socio-motivationnel des femmes qui persévèrent dans le domaine des STIM*  
**Simon LAROSE** (Canada)
- GW-01-04**    *Younger women may force organizational changes that earlier generations had difficulty achieving, in science and technology*  
**Hélène LEE-GOSSELIN** (Canada)

**Thematic session A5: Sustainable agriculture**

10:30 – 12:30; Polytech, room 5

**Chair :** Yvonne POURRAT (France)

- SD-01-01**    *Modeling dynamics of global vegetation pattern: predicting patchiness in distributions of different vegetation types*  
**Nelli AJABYAN** (Armenia)



- SD-01-02** *Improving livelihoods and environmental sustainability through horticulture fish integration in Kisii and Kuria regions of the Lake Victoria basin*  
**Geneviève MWAYULI** (Kenya)
- SD-01-03** *Sustainable production engineering for green composites using bamboo fibers*  
**Sachiko OGAWA** (Japan)

#### **Thematic session A6 : Integrated logistics**

10:30 – 12:30; Polytech, room 6

**Chair :**

- LT-01-01** *Supply chain design in the delocalization context: a mathematical model and a case study*  
**Atidel HADJ ALOUANE** (Tunisia)
- LT-01-02** *Hazardous materials logistics: a survey of firms' practices in the province of Quebec*  
**Nathalie DE MARCELLIS-WARIN** (Canada)
- LT-01-03** *Return policies for efficient reverse logistics systems*  
**Atidel HADJ ALOUANE** (Tunisia)
- LT-01-04** *Reverse logistics of computer hardware: management complexity and strategy*  
**Suzanne MARCOTTE** (Canada)

#### **Thematic session B1 : Careers of professional engineers and scientists**

14:00 – 16:00, room 1

**Chair :** Yolanda GEORGE (USA)

- GC-02-01** *Going my own way. the situation of independent women engineers in Austria*  
**Bente KNOLL** (Austria)
- GC-02-02** *The two-track system (TTS): a career development course encompassing women in science and engineering*  
**Jung Sun KIM** (Korea)
- GC-02-03** *The national review of engineering careers for women in Australia*  
**Julie MILLS** (Australia)
- GC-02-04** *Requisite attributes of female scientists and engineers for successful career development*  
**Hae Ja SHIN** (Korea)
- GC-02-05** *Avoiding the 'leaky pipeline' by understanding retention issues of women in the US engineering workforce*  
**Karen HORTING** (USA) and **Lisa FREEHILL** (USA)
- GC-02-06** *Survey of occupation status and job satisfaction of women in the busan region specializing in STEM*  
**Sookhyun CHUNG** (Korea)

### **Thematic session B2 : From equal opportunities to diversity**

14:00 – 16:00, room 2

**Chair :** Christelle DIDIER (France)

- GG-02-01**    *Equality and diversity as a key for managing companies*  
**Yvette RAMOS** (France)
- GG-02-02**    *In our shoes - WLB, multitask management*  
**Celia FORTES** (Brazil)
- GG-02-03**    *An inclusive leadership strategy for women: a case-study from leading semiconductor company Freescale*  
**Laurent BONHOMME** (France) and **Véronique THOMAS** (France)
- GG-02-04**    *Strategies for equal opportunities for female engineers in Germany*  
**Burghilde WIENEKE** (Germany)
- GG-02-05**    *Gender diversity : Best practices in the industrial workplace*  
**Valérie OZIER** (France)
- GG-02-06**    *Gendered organisational cultures and networks in engineering research results from EU-project PROMETEA*  
**Felizitas SAGEBIEL** (Germany)

### **Thematic session B3 : Strategies to attract girls into STEM (I)**

14:00 – 16:00, room 3

**Chair :** Grazyna WHAPSHOTT (UK)

- GE-02-01**    *Gender knowledge of role models: linking structural and symbolic aspects of strategies to attract girls into STEM*  
**Christiane ERLEMANN** (Germany)
- GE-02-02**    *Strategies to attract girls into STEM : science and technology outreach survey for Nigerain girls*  
**Uduakobong OKON** (Nigeria)
- GE-02-03**    *Initiatives by the Queensland Government and Universities in Australia to increase the representation of women in engineering*  
**Bouchra SENADJI** (Australia)
- GE-02-04**    *Messages that encourage girls (ages 14-18) to consider engineering careers*  
**Catherine DIDION** (USA)
- GE-02-13**    *Institutionalization and sustainability of gender programs*  
**Suzanne BRAINARD** (USA)



### **Round-Table B4: Les leaders de la francophonie mondiale : témoignages et réflexions**

14:00 – 16:00, room 4

**Présidente:** Monique FRIZE (Canada)

**Introduction:** *Rompre le cycle de progrès et de recul*, **Monique FRIZE** (Canada)

**Panel:** Susanne FORTIER (Canada), Nadia GHAZZALI (Maroc/Canada), Issie GUEYE (Ivory), Nicole LE DOUARIN (France)

### **Thematic session B5 : Sustainable development**

14:00 – 16:00, room 5

**Chair :** Geneviève MWAYULI (Kenya)

- SD-02-01**     *The importance of seismic strenghtening in adobe houses in rural Peru*  
**Karym PEREZ CUEVA** (Peru)
- SD-02-02**     *Impact of technology on the environment and on living condition*  
**Regina FITTIPALDI** (Brazil)
- SD-02-03**     *Soil decontamination: How can we affect metal phytoextraction from contaminated soils*  
**Irina SHTANGGEVA** (Russia)
- SD-02-04**     *Importance of women contribution to biotechnology: perspectives from Uzbekistan*  
**Dilfuza EGAMBERDIEVA** (Uzbekistan)
- SD-02-05**     *Prediction of ozone concentration using fuzzy logic based method*  
**Biljana MILEVA** (Macedonia)
- SD-02-06**     *Mount Merapi activity 2006: its impact on groundwater environment*  
**Sari KUSUMAYUDHA** (Indonesia)

### **Thematic session B6 : ICT (I)**

14:00 – 16:00, room 6

**Chair and introduction :** Ewa MACIAS (Google, UK):

- IT-01-01**     *Website color in the future of the internet*  
**Evelyn NGWU** (Botswana)
- IT-01-02**     *A massively parallel fingerprint recognition system for performing multimillion matches per second*  
**Fozia NOOR** (Pakistan)
- IT-01-03**     *A general framework for analyzing nature-inspired routing protocols*  
**Saira ZAHID** (Pakistan)
- IT-01-04**     *Advanced visualization and simulation - an emerging scientific language and engineering tool for traffic safety problems solving in infrastructure design*  
**Lidia ZAKOWSKA** (Poland)

**IT-01-09**     *Green IT for SMEs*  
**Margaret ROSS** (UK)

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**Invited lectures: Challenges in Science**

16:30-18:00, room 1 & 2

**Chair :** Claire DESCHENES (Canada)

**IL04**     *Challenges to Women in Science*

**Zohra BEN LAKHDAR**

Professor, Faculty of Sciences-University Tunis el Manar-, president of Tunisian Society of Optics, Tunisia.

**IL05**     *My detector is bigger than yours: Big Science, Particle Physics and Women.*

**Pauline GAGNON**

Associate scientist at the Physics Department of Indiana University, USA

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**Thematic session C3 : Women in engineering and scientific education**

16:30-18:00, room 3

**Chair :** Catherine DIDION (USA)

**GE-01-01**     *Women in engineering education in Egypt*  
**Abdel Karim RANDA** (Egypt)

**GE-01-02**     *Cultures of masculinities in engineering*  
**Brigitte RATZER** (Austria)

**GE-01-03**     *A survey report on the gender responsive in S&T field: the case of Korea*  
**Eun Kyoung SONG** (Korea)

**GE-01-04**     *Engineering a future for women ?*  
**Pat MORTON** (UK)

**GE-01-05**     *Gender situation analysis of a STEM based Kenyan university*  
**Rosebella MARANGA** (Kenya)

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**Thematic session C4 : Historical perspectives on women and leadership in STEM**

16:30-18:00, room 4

**Chair :** Ruby HEAP (Canada)

**GW-02-01**     *Elsie Gregory MacGill: Leader and pioneer canadian engineer*  
**Crystal SISSONS** (Canada)

**GW-02-02**     *Becoming a national leader for women in science and engineering: Monique Frize 1989-1994*  
**Hilary ASHE** (Canada)

**GW-02-03**     *International conferences of women engineers and scientists- women changing the world*  
**Breton NIDDERY** (Canada)



### **Thematic session C5: ICT and women in rural environment**

16:30-18:00, room 5

**Chair and introduction :** Nathalie DODUC (Google, UK)

- IT-02-01** *Satellite transmission: a new tool to information access for rural females in Nigeria*  
**Stella CHIEMEKE** (Nigeria)
- IT-02-02** *Radio programs as a tool to information access for rural women farmers in Nigeria*  
**Veronica AKWUKWUMA** (Nigeria)
- IT-02-03** *Women micro-entrepreneurs business development through ICT in Tunisia*  
**Leila BEN GACEM** (Tunisia)

**July 17 (Thursday), 2008**

### **Invited lectures: Science and sustainable development**

8:30-10:00, rooms 1, 2, 3

**Chair :** Sue BIRD (UK)

- IL06** *Science and sustainability*  
**Bettina LAVILLE,**  
Past elected member of the International Union for the Conservation of Nature (IUCN), sitting member of France's Council of State, France.
- IL07** *At a snail's pace – Integrating gender aspects into climate change debate*  
**Ulrike ROEHR,**  
Head of Genanet – Focal point gender, environment, sustainability, Germany

### **Thematic session D1 : Gender perspective of scientific careers**

10:30-12:30, rooms 1, 2

**Chair:** Jane DANIELS (USA)

#### **Introductory lecture**

- IL08** *The feminisation of scientific and technical professions: an issue for the evolution of gender relations in contemporary societies?*  
**Nicky LE FEUVRE,**  
Professor at University of Toulouse, France

#### **Contributed papers**

- GC-03-01** *Gender and science academic careers*  
**Catherine DIDION** (USA)
- GC-03-02** *Advancing women scientists and engineers on university faculties in the United States*  
**Peggy LAYNE** (USA)

### **Thematic session D6 : Logistics**

10:30-12:30, room 6

**Chair :** Angelika KLEIN (Germany)

- LT-02-01**     *Clustering of autonomously cooperating logistic entities using agent-based framework*  
**Gulshanara SINGH** (Germany)
- LT-02-01**     *Road project management at the Ministère des Transports du Québec: a new internationally recognized project adapted to road projects*  
**Josée GAGNON** (Canada)

### **Thematic session D7 : Water management**

10:30-12:30, room 7

**Chair :** Uduakobong OKON (Nigeria)

- SD-03-01**     *Water impact in a garment life cycle*  
**Anne PERWUELZ** (France)
- SD-03-02**     *Study of water filtering in under developed countries and need for use of traditional filtering systems*  
**Hind SAIDANI SCOTT** (UK)
- SD-03-03**     *Japanese experience: development of small scale water supply*  
**Keiko YAMAMOTO** (Japan)
- SD-03-04**     *A proposal for the water management in the river Amajac sub basin, state of Hidalgo, Mexico*  
**Vega GRISELLE** (Peru)
- SD-03-05**     *Environmental impacts of the main contaminating industrial and agricultural units on the ecological situation and sustainable development in DNEPR river basin region*  
**Larysa ANISIMOVA** (Ukraine)
- SD-03-06**     *Management and leadership: entrepreneurship and a woman*  
**Kimura HIROKO** (Japan)

### **GENERAL ASSEMBLY INWES**

13 :30-16 :00, room 4

### **Thematic session E1 : Strategies to attract girls into STEM (II)**

14:00-16:00, room 1

**Chair :** Moyra Mc DILL (Canada)

- GE-02-05**     *Strategies to attract girls into STEM: the case of Kenya*  
**Geneviève MWAYULI** (Kenya)



**GE-02-06** *Questionnaire result of each Asian country, what procedure is necessary for the creation of woman's job to the physical science field*  
**Aguri NAKANO** (Japan)

**GE-02-07** *Mentorship to promote engineering as a career choice for women :The Marianne Mareschal chair proposal*  
**Diane RIOPEL** (Canada)

**GE-02-08** *Association for women in science scholarship and outreach programs: successful strategies to attract and retain girls and women in STEM fields*  
**Frances SOLOMON** (USA)

**GE-02-09** *Gender inclusive curriculum in engineering: a case study of its implementation and sustainability*  
**Julie MILLS** (Australia)

### **Round-Table E2: Women engineers and scientists wanted ! Why and how companies Seek to attract them and to retain them?**

14:00-16:00, room 2

**Chair :** Marie-Hélène THERRE (France) and Suzanne MATHIEU (France)

**Panel :** Vera LOHEL (Siemens, Germany), Jignasha Amin PATEL (Freescale Semiconductor, USA), Bruno GUILLEMENT (Alstom Transport, France), Ran GEDALLIA Johnson Control Inc.), ...

### **Round table E3: Women engineers and scientists together with the Youth Forum; a friendly talk on careers**

14:00-17:00, room 3

**Chair :** Yvette RAMOS (France)

**Panel :** Marie HERNIGOU (France), Valérie OZIER (France), Florentina POPOVICI (USA) , Megan RICHARDSON (USA), Pam WAIN (UK), Lidia ZAKOWSKA (Poland), ...

*Objective is to dedicate a privileged moment for the young engineers and scientists to be, for them to dare and ask questions. This workshop will present careers of young women and will emphasize on the importance of networking, coaching and mentoring for managing our own careers. This session will be held in two parts.*

### **Thematic session E5 : ICT (II)**

14:00-16:00, room 5

**Chair and introduction:** Elke MICHLMAYR (Google, UK)

**IT-01-05** *Dip based intelligent traffic signal controlling system*  
**Huma AFZAL** (Pakistan)

**IT-01-06** *Emerging trends in ICT industry: a mobile software agent perspective*  
**Divina MELOMEY** (UK)

**IT-01-07** *Evaluation video transmission using MyEvalVidRTP tools in network simulator ns2*  
**Sabina GLUMCEVIC** (Bosnia)

**IT-01-08** *The changing world of programmable logic*  
**Carol MARSH** (UK)





**Round-Table F4 : National policies to promote women leaders in STEM**

16:30-18:00, room 4

**Chair :** Mona NEMER (Canada)

**Panel :** Suzanne BRAINARD (USA), Ruby HEAP (Canada), Myung Hee JUNG (Korea), Uduakobong OKON (Nigeria), Anne PEPIN (France), Christine WACHTER (Austria), Annette WILLIAMS (UK)

**Thematic session F5 : Women and entrepreneurship**

16:30-18:00, room 5

**Chair :** Stéphanie CHASSERIO (France)

**GG-04-01** *A STEM woman in the corporate game*  
**Sabine JOSWIG** (Germany)

**GG-04-02** *Incubators for women entrepreneurship in science and technology: a vehicle for development*  
**Ghada EL KHAYAT** (Egypt)

**GG-04-03** *Women entrepreneurship in North of France*  
**Anne-Marie JOLLY** (France)

**Thematic session F6 : Biotechnology**

16:30-18:00, room 6

**Chair :** Diffuza EGAMBERDIEVA (Uzbekistan)

**BT-01-01** *A changing world for women : prenatal diagnosis in point-of-care technology*  
**Maiwenn KERSAUDY** (UK)

**BT-01-02** *Proteomics for understanding the signaling pathways involved in cancer angiogenesis and metastasis*  
**Kong-Joo LEE** (Korea)

**Thematic session F7 : Women inventors and innovators. Transfer of technology.**

16:30-18:00, room 7

**Chair :**

**GG-05-01** *From an idea to a patent*  
**Marianne VON RAUCH** (Germany)

**GG-05-02** *Female start-ups in research and technology - an interesting alternative?*  
**Birgit WOITECH** (Austria)

**GG-05-03** *Gender aspects of inventions : European female researchers and their participation in R&D*  
**Kordula KUGELE** (Germany)

**GG-05-04** *Academic transfer, incubation and entrepreneurship - a promising field for women scientists*  
**Stefan FUCHS** (Germany)

**GG-05-05** *The innovation climate in European research and development departments regarding gender aspects; results of a European online survey*  
**Iris TINSEL** (Germany)

**July 18 (Friday), 2008**

**Invited lectures: New scientific issues**

8:30-10:00; rooms 1, 2, 3

**Chair :** Pam WAIN (UK)

**IL09** *Telecom and Internet evolution - usages and technologies for tomorrow*  
**Martine LAPIERRE,**  
Vice President strategy and solutions, Alcatel-Lucent, France

**IL10** *It's not only cats that have nine lives*  
**Diane RIOPEL,**  
Professor at Polytechnic Montreal, Canada

**Thematic session G1 : Promotion of women in sciences**

10:30-12:00; rooms 1, 2

**Chair :** Nadia GHAZZALI (Maroc/Canada)

**Introductory lecture**

**IL11** *The situation of women in science - the view of the European Commission,*  
**Johannes KLUMPERS,**  
Head of the scientific culture and gender issues Unit, European commission

**Contributed papers**

**GG-06-01** *Ukrainian NGO "women in science": our policy in work with youth*  
**Iryna VAVILOVA** (Ukraine)

**GG-06-02** *French women in science: status and actions*  
**Colette GUILLOPE** (France)

**GG-06-03** *Women in science and engineering... maybe*  
**Cecilia MOLONEY** (Canada)

**Thematic session G3 : Work-life balance in STEM**

10:30-12:00; room 3

**Chair :** Nicky LE FEUVRE (France)

**GG-07-01** *After school science teacher: as an initial step for returners after career break*  
**Hae Ja SHIN** (Korea)

**GG-07-02** *Work life balance for women in STEM*  
**Samana ZEHRA** (Pakistan)

**GG-07-03** *Articulating work-life balance: perspectives of women returners to STEM*  
**Barbara HODGSON** (UK)



**GG-07-04** *Still a women's topic ? German engineers in conflict between careers and family*  
**Susanne IHSEN** (Germany)

**GG-07-05** *Take your pick : work-life balance or retention and progression: women engineers in UK's engineering industry ?*  
**Haifa TAKRURI-RIZK** (UK)

#### **Workshop G4 : INWES Best Practices**

10:30-12:00; room 4

**Chair :** Ruta SEVO (USA)

**Panel :** Claire DESCHENES (Canada), Florence DURRET (France), Akiko TSUGAWA (Japan), Hae Ja SHIN (Korea), Uduakobong OKON (Nigeria)

#### **Thematic session G5 : Gender perspective in teaching sciences**

10:30-12:00; room 5

**Chair :** Suzanne BRAINARD (USA)

**GE-03-01** *Sensibilizing teachers to gender equality: realistic?*  
**Véronique LIZAN** (France)

**GE-03-02** *Learner directed learning for the African girl-child in STEM*  
**Akintayo FOLAKE** (Nigeria)

**GE-03-03** *Perceptions of female pre-service teachers towards the teaching of mathematics in senior classes*  
**Tasokwa KAKOTA** (Malawi)

**GE-03-04** *Using pocket PC to enhance teaching and learning of primary science among girls in Mauritius - an action research*  
**Hyleen MARIAYE** (Mauritius)

**GE-03-05** *Marie Curie and science education II Kamishibai-Japanese story telling with picture*  
**Mizue KISSHO** (Japan)

#### **Thematic session G6 : Climate change**

10:30-12:00; room 6

**Chair:** Larysa ANISIMOVA (Ukraine)

**SD-04-01** *Sustainable agriculture and agro-food industry*  
**Ademiju AGANGA** (Botswana)

**SD-04-02** *Researching the evolution of the Earth's ozone*  
**Elizabeth GRIFFIN** (Canada)

**SD-04-03** *Climate change and future energy needs*  
**Jackie CARPENTER** (UK)

**SD-04-04** *Advances in automotive powertrain and CO<sub>2</sub> emissions*  
**Julie WINNARD** (UK)