

## **Sophia Huyer, PhD**

### **Gender, science, technology and innovation for sustainable development**

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- Education:** Ph.D. Environmental Studies and International Development.  
York University, Toronto, Canada, 2000.  
M.A. History. University of Toronto, Canada. 1987.  
B.A. History. Calvin College, Grand Rapids, Michigan, USA. 1984
- Awards and links:** Member, Gender and Big Data Working Group, CGIAR Gender Platform (current)  
Editorial Board, World Review of Science, Technology and Sustainable Development (current)  
Judge, WomenConnect Challenge, USAID and DAI (May 2018)  
Member, Natural and Social Sciences Commission, Canadian Commission for UNESCO (2017-2019)  
Member, Scientific Committee, 2018 World Social Science Forum, ISSC  
Jury Member, Social Impact Award 2007, Anita Borg Institute, Palo Alto, CA  
Fulbright Fellowship, Kennedy School of Government, Harvard University  
January – March 2002
- Affiliations:** Gender and Social Inclusion Leader, CGIAR Climate Change, Agriculture and Food Security Program (CCAFS-CGIAR)  
Executive Director, WISAT – Women in Global Science and Technology (WISAT)
- Areas of Expertise:** 27 years' experience in development research and policy relating to technology, environment, gender equality and sustainable development. Research and collaboration with international teams from Africa, Asia and Latin America. Research and advisory services for a broad range of UN agencies, bilateral agencies, and civil society, including: IDRC, UN Women, UNDP, UNESCO, UNIDO, UNCTAD, UN Women, Organization of American States, CIDA, World Bank, FAO, WIEGO, IICD, Organization for Women in Science for the Developing World (OWSD), Gender Advisory Board (UNCSTD), INSTRAW and others. Expertise in regional priorities and gender equality issues in sub-Saharan Africa, Asia-Pacific, and Latin America.
- Positions:**  
April 2016 – present **Gender and Social Inclusion Research Leader**  
**Member, Program Management Committee**  
**CGIAR Climate Change, Agriculture and Food Security Programme**  
CCAFS brings together the world's best researchers in agricultural science, climate science, environmental and social sciences to identify and address the most important interactions, synergies and trade-offs between climate change and agriculture. Responsibilities include management of gender and social inclusion research across CCAFS; implementation, updating and reporting on CCAFS Gender Strategy; management of strategic applied research activities;

providing technical assistance to collaborators and partners; supporting the application and monitoring of gender and social inclusion in CCAFS outcomes; fundraising; presentations at high-level events.

1995 - Present

**Executive Director, WISAT – Women in Global Science and Technology**

International non-profit consulting group which engages in assessment, evaluation, policy analysis and networking on the gender dimensions of technology and development, including the use of technology for women's enterprises and private sector development; e-policy; and science, technology and innovation (STI). Development of measurement and evaluation frameworks and indicators, analysis and programming, policy recommendations. Responsible for administration and project management, including monitoring and evaluation as well as programme development and representation of WISAT program at high-level events. Currently coordinating the National Assessments on Gender and STI project in Argentina, Brazil, Mexico, South Africa, India, Indonesia, Nepal, Senegal, South Korea and the US. Funded by the Elsevier Foundation and Sida in partnership with the CGIAR Climate Change, Agriculture and Food Security programme (CCAFS) and the Organization for Women in Science for the Developing World (OWSD).

Aug 2013- March 2015 **Director, GenderInSITE – Gender in Science, Innovation, Technology and Engineering**

An international multistakeholder initiative funded by Sida to promote gender and science, innovation, technology and engineering (SITE) in international and national level policy and programming. Responsibilities include liaison with international management group; fundraising, networking with partners, administrative oversight, monitoring and evaluation of activities; reporting to donors; development of program of activity; presentation of GenderInSITE activities at major international events.

2009 – 2013

**Senior Advisor, Organization for Women in Science for the Developing World (OWSD)**

OWSD encourages the participation and leadership of women scientists in STI in the developing and developed worlds. Activities: Evaluation, strategy and programme development; programme management; governance; fundraising.

1998 – 2009

**Executive Director/ Research Director, Gender Advisory Board, United Nations Commission on S&T for Development (GAB-UNCSTD)**

**Publications**

Lead Author, with James Hansen, Alison Rose, Cathy Vaughan, Tiff van Huysen (2017). What We Know about Gender and Rural Climate Services: Preliminary Findings and Guidance. USAID and CGAIR Climate Change, Agriculture and Food Security Program, Copenhagen, Denmark.

Co-Author, with Tatiana Gumucio, J. Hansen and C. Vaughan. *Gender and Climate Information Services: A review*. Submitted to

Guest Editor, Special Issue on Gender-Responsive Climate Smart Agriculture: Framework, Approaches and Technologies, *Climatic Change*. Forthcoming.

Co-author, with Bruce Campbell and D. Dinesh. "Agriculture, Food Security and Future Earth". In *Global Change and Future Earth*, eds. Tom Beer, Keith Alverson and Jianping Li. Cambridge, UK: Cambridge University Press. In press.

Co-author, with Aggarwal, P. K., A. Jarvis, B. M. Campbell, R. B. Zougmore, A. Khatri-Chhetri, S. J. Vermeulen, A. Loboguerrero, L. S. Sebastian, J. Kinyangi, O. Bonilla-Findji, M. Radeny, J. Recha, D. Martinez-Baron, J. Ramirez-Villegas, P. Thornton, E. Wollenberg, J. Hansen, P. Alvarez-Toro, A. Aguilar-Ariza, D. Arango-Londoño, V. Patiño-Bravo, O. Rivera, M. Ouedraogo and B. Tan Yen. 2018. The climate-smart village approach: framework of an integrative strategy for scaling up adaptation options in agriculture. *Ecology and Society* 23 (1):14.

Co-author, with Bruce Campbell et al. "Climate Change and Poverty – Regional Perspectives" submitted to *World Development*.

Huyer, S., & Nyasimi, M. (2017). Gender and social inclusion. In T. Ngara (Ed.), *Climate Smart Agriculture Manual for Agricultural Education in Zimbabwe*. Copenhagen: Climate Technology Centre and Network.  
Co-Author, with Mary Nyasimi (2017). "Closing the gender gap in agriculture under climate change", *Agriculture for Development* 30 (Special issue on Climate Smart Agriculture).

Guest Editor, Special Issue on Gender, Agriculture and Climate Change, and Author, Closing the Gender Gap in Agriculture. 2016. *Gender, Technology and Development*, 20 (2).

Huyer, S. (2016). Gender Equality in National Climate Action: Planning for Gender-Responsive Nationally Determined Contributions. UNDP: New York.

Huyer, S. (2016). Gender in International Climate Policy: An analysis of progress in gender equality at COP21. Copenhagen, Denmark: CGIAR Climate Change, Agriculture and Food Security Programme.

Huyer, S., Campbell, B., Hill, C., Vermeulen, S. 2016. CCAFS Gender and Social Inclusion Strategy. Copenhagen, Denmark: CGIAR Climate Change, Agriculture and Food Security Programme.

Huyer, S. 2015. "Is the Gender Gap Narrowing in Science and Engineering?", *UNESCO Global Science Report 2015*, Paris: UNESCO.

Huyer, S., Twyman, J., Koningstein, M., Ashby, J., & Vermeulen, S. 2015. Supporting women farmers in a changing climate: five policy lessons. Copenhagen, Denmark: CGIAR Climate Change, Agriculture and Food Security Programme.

Co-author in World Bank, IFAD, FAO, 2015. Gender and Climate-Smart Agriculture Module, *Gender and Agriculture Sourcebook*. Washington, DC: FAO and World Bank.

Co-author with F. Grassi and J. Landberg. 2015. Running Out of Time: The Reduction of Women's Work Burden in Agricultural Production, Rome: FAO.

Huyer, S. 2014. Gender and Climate Change in Macedonia: Applying a Gender Lens to the Third National Communication on Climate Change. Prepared for UNDP Skopje and the Government of Macedonia.

Contributor, Overview of linkages between gender and climate change, Section 1, Gender and Climate Change in Asia and the Pacific. 2013. UNDP and GGCA. New York: UNDP.

Co-author with N. Hafkin, "[The right policies can fill the gender gap in science.](#)" SciDev.Net, 5

December 2012. <http://www.scidev.net/en/science-and-innovation-policy/gender/opinions/the-right-policies-can-fill-the-gender-gap-in-science.html>.

Main contributor, UNCTAD. 2012. *Applying a Gender Lens to Science, Technology and Innovation*. Geneva.

Huyer, S. Addressing Global Challenges: Focusing Science, Technology and Innovation (STI) Policy and Funding through a Gendered Lens. UNDAW /UNESCO Expert Group Meeting on Gender, Science and Technology, 28 September – 1 October 2010. Paris.

Co-author, Information and communications technology and gender equality: new opportunities and challenges for public administration to implement the internationally agreed development goals, including the Millennium Development Goals. E/C.16/2010/4, January. United Nations Economic and Social Council, New York.

Sterling, R, S. Huyer and J.K. Bennett, 2009. "89.1 FM: The Place for Development. "Power shifts and participatory spaces in ICTD", *Journal of Community Informatics*. Special issue on Gender and Community Informatics. 5(3).

Contributing Author. 2009. "Women in Agriculture", *International Assessment of Agricultural Science and Technology for Development*. Washington, DC: World Bank.

Huyer, S., and N. Hafkin. 2008. "Women in the Information Society: Measuring Participation" in *Information Technology and International Development*. 4(3).

Parmentier, M. C. and S. Huyer. 2008. "Female Empowerment and Development in Latin America: Use Versus Production of Information and Communications Technology" in *Information Technology and International Development*. 4(3).

Main contributor, 2007. *International Report on Science, Technology and Gender*, UNESCO, Paris. Contributed section on S&T for sustainable development, including agriculture, energy, and rural technology.

S. Huyer. 2007. *Handbook on Gender and E-Government in Africa*. Prepared for the UN Economic Commission for Africa, Addis Ababa.

Huyer, S. and N. Hafkin. 2007. *Engendering the Knowledge Society: Measuring Women's Participation*. Montreal: Orbicom.

Huyer, S. and G. Westhom. 2007. [\*Gender Indicators in Engineering, Science and Technology, an Information Toolkit\*](#). Paris: UNESCO.

Hafkin, N. and S. Huyer, eds. 2006. *Cinderella or Cyberella? Empowering Women in the Knowledge Society*. New Hampton, CT: Kumarian Press.

Author, Chapter 1 and Chapter 4: "Cinderella in the Classroom? Gender, ICTs and Education", based on work undertaken for the World Bank Toolkit on Engendering ICTs.

Huyer, S. 2006. "E-quality or E-poverty? Gender and International Policy on ICT for Development" in K. Sarikakis and D.K. Thussu, eds. *Ideologies of the Internet*. Cresskill, New Jersey: Hampton Press.

Huyer, S., N. Hafkin, H. Ertl and H. Dryburgh. 2005. "Women in the Information Society." In *From the Digital Divide to Digital Opportunities: Measuring Infostates for Development*. Montreal: Orbicom.

Huyer, S. 2005. "Women, ICT and the Information Society: Global Perspectives and Initiatives" *ACM International Conference Proceeding Series*; Vol. 126.

2004. "Gender Equality and S&T Knowledge and Policy at the International Level", Organization of American States, August.

Huyer, S. 2004. "Challenging Relations: A Labour-NGO Coalition to Oppose the Canada-US and North American Free Trade Agreements, 1985-1993" in *Development in Practice* February 2004. Republished in 2005 in *Development NGOs and Labour Unions: Terms of Engagement*, eds. D. Eade and A. Leather, Bloomfield, CT: Kumarian Press.

Huyer, S. and M. Carr. 2002. "Information and Communication Technologies: A Priority for Women". *Gender, Technology and Development* 6 (1).

Huyer, S. 1999. Shifting Agendas at GK97: Women and International Policy on Information and Communication Technologies. In W. Harcourt, ed. *Women@internet*. London: Zed.

Huyer, S. 1998. Engendering Science and Technology Policy: The Case of the Gender, Science and Development Programme. *Gender, Technology and Development* 2 (2).

### **Selected Presentations**

Participant, Chatham House Roundtable, "Working together to close gender gaps", British High Commission in Ottawa, May 3, 2018.

"A gender-transformative approach to climate-smart agriculture", Presentation, Brown Bag Seminar, International Development Research Centre (IDRC), Ottawa, Canada, April 28, 2018.

"Transforming Agriculture for the future: Action and way forward", Roundtable discussion, Agriculture Advantage: The case for climate action in agriculture. COP23 Side Event, CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS), Bonn, November 14, 2017.

"Gender and Climate Data", Downloading Data to Grow Agriculture, New Zealand Ministry for Primary Industries, COP23, Bonn, November 10, 2017.

"A research and action agenda for mainstreaming gender in adaptation in smallholder agriculture", Gender responsive adaptation in smallholder agriculture: Challenges and opportunities, COP23 Side Event, CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS), Bonn, November 8, 2017.

"Landscape of Gender in Science and Innovation", presentation to the IDRC Foundations of Innovation program, March 29, 2017.

"The Gender Gap in Science and Engineering", UNESCO Science Report 2015:

1. Presentation at UNESCO Science Report Launch, European Parliament, organized by the Science and Technology Options Assessment (STOA) Panel, UNESCO, and the European Commission's Joint Research Centre (JRC), May 31, 2016, Brussels.
2. Moderator, Panel with L'Oreal-UNESCO For Women in Science Laureates, UNESCO Executive Board Meeting, March 23, 2016, Paris.

Gender in the INDCs, COP21 High level panel, From farmer's fields to landscapes: Food security in a

new climate regime? CCAFS-CARE, December 6, Paris.

Gender Equality in the Knowledge Society: Better analysis through better information. American Association for the Advancement of Sciences Annual Meeting 2015, San Jose, California, USA, February 15. Moderator.

Presentation: “Gender Equality in STI and the Knowledge Society: An International Comparison”:

1. Women in Science Panel, Brazilian Association of Neuroscience and the Institute of Biophysics, Rio de Janeiro State University, September 13 and 15, 2015.
2. Informational Briefing, Office of the S&T Advisor, US Department of State, Washington, DC October 28, 2015.

“Where are the Women? Global Gender Gaps in Technology and Innovation”:

1. Global Equality and Diversity Conference, Noon Centre of Business, University of East London, November 3, 2015 and
2. Global Diversity and Inclusion Working Group, Reed Elsevier, November 13, 2015.

“Gender and Climate Change in Macedonia”, Presentation at University of Skopje, September 10, 2014.

“Running out of Time: Reducing Women’s Work Burden in Agricultural Production”, FAO Headquarters, Rome, April 3, 2014.

“Gender Equality in the Knowledge Society”, presentation at the US Department of State Office for S&T, Washington, DC. January 29, 2013.

Expert Group Meeting, Defining the Way Forward: UNDP's Gender Equality Strategy 2014-2017. UNDP, Zagreb, Croatia 31 July 2012- 2 August 2012, Participant.

“Designing Services for Smallholders”, mAgri Webinar: Designing & Marketing Mobile Information & Advisory Services for Women Smallholders. June 27, 2012.

The Wrong Side of the Knowledge Divide, American Association for the Advancement of Sciences, Vancouver, BC, February 16 and 18, 2012. Presenter.

Strategic Plan Development Workshop, National Taskforce on Women and STI (STI4Women). UNESCO Office in Tanzania, June 2011. Facilitator.

UNDAW-UNESCO Expert Group Meeting on Gender, Science and Technology, Paris. Prepared background paper and presentation on: Addressing Global Challenges: Focusing Science, Technology and Innovation (STI) Policy and Funding through a Gendered Lens. September 2010. Expert Participant.

Policy Tools: Government and Private Sector Roles in Promoting Women in S&T, Forum on Women in Science in Tanzania. November 11-12, 2010, organized by UNESCO, Bagamoyo, Tanzania. Presenter.

Gender and Public Policies in Education, Science and Technology: Improving Gender Equity. IANAS and the Mexican Academy of Sciences. Mexico City, April 20-21, 2009. Presenter.

"New Technologies Creating New Opportunities for Women", Reflections on the 2003 Agreed Conclusions on Women and ICT: Current Efforts and Opportunities", Side Event, US State Department, 49th Session of the Commission on the Status of Women, New York, March 7, 2005. Presenter.

INSTRAW Virtual Seminar Series on Gender and ICTs. “Overcoming the Digital Divide: Understanding

ICTs and their Potential for the Empowerment of Women” (with T. Sikoska). April 2003. Moderator and co-author of Final Report.

### **Reviews and contributions**

Reviewer, Chapter 7, UN Women’s *Global Monitoring Report on Gender Equality and the 2030 Agenda*.

Member, Grant Review Panel, New Scholars Grant Program, Elsevier Foundation 2015

United Nations Development Programme. 2012. *Powerful synergies: Gender Equality, Economic Development and Environmental Sustainability*. New York: UNDP.

Committee on Maximizing the Potential of Women in Academic Science and Engineering; Committee on Science, Engineering, and Public Policy, National Academy of Sciences, National Academy of Engineering, and Institute of Medicine of the National Academies. 2007. *Beyond Bias and Barriers: Fulfilling the Potential of Women in Academic Science and Engineering*. Washington, DC: The National Academies Press (2007).

Article reviews for:

Contemporary South Asia  
Gender, Technology and Development  
Journal of Community Informatics  
Women's Studies International Forum