



The ACS Science and Human Rights  
Webinar Series presents:

## **American Association for the Advancement of Science**

July 29, 2014

1:00-2:00 p.m. EDT

[www.acs.org/scienceandhumanrights](http://www.acs.org/scienceandhumanrights)

## **Dorothy J. Phillips, Ph.D.**

### **ACS Board of Directors**



Dr. Phillips is serving as the Board representative for Science & Human Rights. She retired from Waters Corporation in 2013 after working there for 28 years. Prior to joining Waters she worked at Dow Chemical for nearly 10 years. During her industrial career she had the opportunity to work internationally by participating in events and conferences in Europe, China, India and Japan.

She earned her Bachelors degree from Vanderbilt University in 1967 and her Ph.D. from the University of Cincinnati in 1974. She has been a member of the American Chemical Society since 1973 and served in several leadership positions within the Society, prior to being elected to its Board of Directors.

# About ACS



## ACS Vision:

“Improving people’s lives through the transforming power of chemistry”

## ACS Mission:

“Advance the broader chemistry enterprise and its practitioners for the benefit of Earth and its people.”



# About ACS International Activities

## ACS Committee on International Activities (IAC)

The Committee on International Activities assists scientists and engineers worldwide to communicate and collaborate for the good of the chemical and chemically related sciences, chemical engineering, and their practitioners.

## ACS Office of International Activities (OIA)

- ACS Science & Human Rights ([www.acs.org/scienceandhumanrights](http://www.acs.org/scienceandhumanrights))
- ACS International Center (IC) <sup>TM</sup> ([www.acs.org/ic](http://www.acs.org/ic))
- Members, chapters, partnerships, exchanges ([www.acs.org/international](http://www.acs.org/international))

# ACS Science and Human Rights



## ACS EFFORTS:

- Build science and human rights awareness among its members and the global chemistry community
- Informed by protections afforded by the Universal Declaration of Human Rights
- Implemented at the level of its Board of Directors; addressing issues where ACS is uniquely positioned and qualified to make a meaningful impact
- Directed toward human rights abridgement cases where the rights and welfare of professionally engaged chemists and related practitioners are threatened.

**Report any human rights abridgement to [intlacts@acs.org](mailto:intlacts@acs.org)**

# Jessica Wyndham

Associate Program Director

Scientific Responsibility, Human Rights and Law Program



Jessica M. Wyndham is Associate Director of the AAAS Scientific Responsibility, Human Rights and Law Program where she directs the Article 15 Project aimed at promoting the practical application of the right to enjoy "the benefits of scientific progress" and coordinates the AAAS Science and Human Rights Coalition. Wyndham is also an Adjunct Professor at George Washington University. Areas of research interest include the application of international human rights standards in relation to



science, torture, internal displacement, and the death penalty. With field experience in Africa, Asia, the Pacific and the Americas, Wyndham has served as Legal Adviser for a project of the UN Office of the High Commissioner for Human Rights in Ecuador, and for the Brookings Institution Project on Internal Displacement. Wyndham holds a Bachelor of Arts (Hons.) and Bachelor of Laws (Hons.) (JD equivalent) from the Australian National University and a Master of Laws from the University of New South Wales.

# Theresa Harris

Senior Program Associate

Scientific Responsibility, Human Rights and Law Program



Theresa Harris is a Senior Program Associate in the AAAS Scientific Responsibility, Human Rights and Law Program, where she supports the work of the Science and Human Rights Coalition and On-call Scientists. Prior to joining AAAS she led Human Rights USA as its Executive Director, where she represented survivors of human rights violations before United States courts, the Inter-American human rights system and United Nations human rights mechanisms.

Harris has served on the Board of Directors of Amnesty International USA and the governing body of the World Organization Against Torture (OMCT). She earned a BA in Anthropology from Florida State University, an MSc in Urban and Regional Planning from the University of Tennessee-Knoxville and a JD from American University Washington College of Law. She is admitted to practice in Maryland and the District of Columbia.





American Association for the Advancement of Science  
Washington, DC



World's largest  
multidisciplinary scientific  
membership organization

Mission: Advance Science,  
Serve Society

120,000 individual members

262 affiliated organizations

Publisher of *Science*



The Program is committed to:

- promoting high standards for the practice of science;
- advancing the right to enjoy the benefits of scientific progress;
- engaging scientists in human rights;
- furthering the use of science and technology in support of human rights; and
- enhancing assessment of ethical, legal, and human rights issues related to science and technology.



## AAAS On-call Scientists

Human rights  
organizations in need  
of scientific expertise



Scientists interested  
in volunteering their  
skills and knowledge

## AAAS On-call Scientists

- 800+ volunteer scientists, engineers and clinicians
- More than 100 are chemists or chemical engineers
- Volunteers come from more than 40 countries
- 200+ matches with human rights organizations
- Projects in the United States and around the world

## What do On-call Scientists volunteers do?

- Answer scientific questions about evidence or methodology
- Provide specialized expertise in investigations
- Design a survey or help with sampling
- Review documents for scientific accuracy
- and more!

## Example of an On-call Scientists project:

- Assess impact of extractive industries on local communities in Congo, Guinea, and DRC
- Volunteers: Geochemist, psychologists
- Organization: Global Rights



*Mark Logsdon explains to community leader Ibrahima Sory Fadiga and civil society partner Kabinet Cissé, how ground waters can be affected by mining.*

## Example of an On-call Scientists project:

- Advise a team developing new environmental protection regulations in China
- Volunteer: Environmental engineer with expertise in hazardous materials and pollutant management
- Organization: Environmental Defender Law Center



*Source: China.org.cn*

## Example of an On-call Scientists project:

- Interpret and authenticate online videos of alleged chemical weapons attacks in Syria
- Volunteers: Biochemical physicist; toxicologist
- Organizations: Human Rights Watch, Amnesty International





## Example of an On-call Scientists project:

- Analyze DNA evidence in claims of wrongful convictions
- Volunteers: Forensic biochemists, geneticists
- Organization: Innocence Project



## Who can become an On-call Scientist?

- Graduate-level degree in any physical, biological, health/medical or social science, any field of engineering, or any relevant interdisciplinary field
- At least 2 years of work experience in your field
- Good communicator, both verbally and in writing
- Strong endorsement of three references regarding qualifications, experience, integrity, and judgment.

Do volunteers need prior experience working in human rights?

No. One of the benefits of volunteering with On-call Scientists is that, in the course of providing expertise to a project, volunteers will have the chance to learn more about human rights.

## Can volunteers work remotely?

In many cases, yes. Some organizations will not require on-the-ground work in order to utilize the knowledge and tools that volunteers can provide. On-call Scientists may find that they are able to provide host organizations vital assistance on projects by phone or email, or via the Internet.

## What do volunteers accomplish?

- This is a great opportunity to be a part of efforts to advance human rights at home and around the world.
- In the process of addressing a science or technology question or need, On-call Scientists help expand the public's understanding and appreciation of science and technology in the service of human rights.

## How to sign up for On-call Scientists

- Complete an on-line registration form at [www.aaas.org/oncallscientists](http://www.aaas.org/oncallscientists).
- Where a match looks possible, AAAS staff arrange a telephone interview with the prospective volunteer and contact references to determine suitability for the project.
- AAAS shares the volunteer's contact information, CV and other relevant information with the human rights organization that is seeking assistance.



**Affiliated Individuals:** scientists, engineers, health professionals

Next meeting: January 15-16, 2015



**Affiliated Individuals:** scientists, engineers, health professionals

## Are you interested in joining the Coalition?



## Mission and Goals

To facilitate communication and partnerships on human rights within and across the scientific, engineering, and human rights communities with the aim of:

- Increasing the understanding of what each community has to contribute to the other
- Enhancing the capacity of each community to incorporate the concerns and the methods of the other
- Encouraging scientific and engineering associations to explore discipline-specific contributions to human rights work
- Expanding human rights awareness and programs within the scientific and engineering communities.



***Launch of the AAAS Science and Human Rights Coalition***

Former UN High Commissioner  
for Human Rights, former  
President of Ireland,  
Mary Robinson  
January 14, 2009



***Science and Academic Freedom in the Digital Age***

Assistant Secretary of State  
Michael Posner  
October 10, 2012



***International Scientific Cooperation and Article 15***

UN Special Rapporteur on  
Freedom of Expression,  
Frank la Rue  
July 11, 2013

## Areas of Activity

### Working Groups

- I. Welfare of Scientists
- II. Science Ethics and Human Rights
- III. Service to the STEM Community
- IV. Service to the Human Rights Community
- V. Education and Information Resources

### Committee

Outreach and Communication

# Welfare of Scientists

## Primer on Scientific Freedom and Human Rights



produced by the  
[American Chemical Society](#)  
Office of International Activities  
in cooperation with the  
Welfare of Scientists Working Group of the  
[AAAS Science and Human Rights Coalition](#)  
©2012



# Ethics and Human Rights



ADVANCING SCIENCE. SERVING SOCIETY

## Scientists' and engineers' perspectives on their responsibilities

The purpose of this short questionnaire is to learn how scientists and engineers view the nature and scope of their responsibilities. The questionnaire is anonymous and should take no more than 5-10 minutes to complete. The data gathered will be used to inform an in-depth survey to be conducted later this year. Your willingness to provide input is greatly appreciated.

This is a joint activity of the Ethics and Human Rights Working Group of the AAAS Science and Human Rights Coalition and the AAAS Program on Scientific Responsibility, Human Rights and Law.

To complete this questionnaire online, go to: <https://www.surveymonkey.com/s/SciEngResponsibilities-Questionnaire>. Paper copies may be mailed to Jessica Wyndham, AAAS Scientific Responsibility, Human Rights and Law Program, 1200 New York Ave., NW, Washington, DC 20005, USA

## Background Information

A. In which field or discipline do you work? (e.g., astrophysics, mechanical engineering, psychiatry)

B. In what sector do you work?

- ☐ Not currently employed
- ☐ Student/Postdoc
- ☐ Education (all levels)



# Service to the STEM Community

?

## Starter Kit: Helping Your Society Promote Human Rights

Like 0

Tweet 0

reddit this!

Print

The purpose of the Starter Kit is to build the commitment and capacity of scientific associations to engage meaningfully in human rights advocacy, including the application of their discipline's tools and techniques to the realization of human rights

DOWNLOAD THE STARTER KIT

DOWNLOAD

**Contents:**

- Introduction
- Science & Human Rights: Making the Connection
- How to Get Started
- Scientific Associations' Current Involvement in Human Rights
- About the Coalition
- Resources
- Human Rights: A Basic Overview

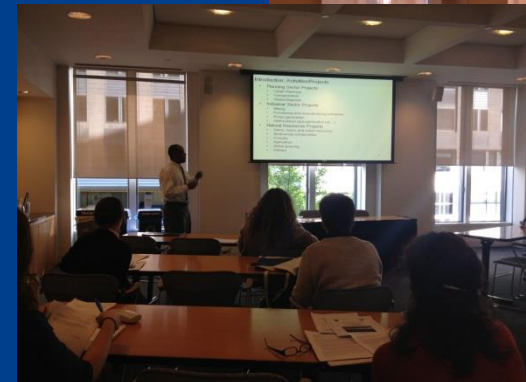
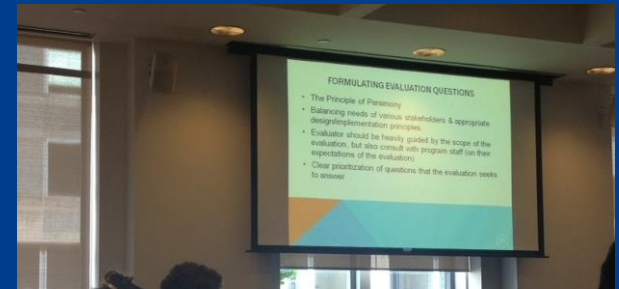
NOTE: We are currently in the process of updating the Starter Kit. If you have any questions please email the Program.

**How can you promote human rights through the ACS?**

# Service to the Human Rights Community



## **HUMAN RIGHTS PROJECTS: Guidelines for Scientists and Human Rights Organizations**



# Education and Information Resources

## Science, Engineering and Human Rights: A Bibliography

Like 2 Tweet 9 reddit this!

This select annotated bibliography provides a guide to the literature on the relationship between science, engineering and human rights. The following citations are grouped under a variety of headings that explore how human rights relate to the practice of their discipline. Each listing is linked to a PDF copy of the corresponding syllabus. We are grateful to all the professors who voluntarily submitted their syllabi to this compilation.

Whenever an article listed is available online without restrictions, the URL link is provided as a starting point for scientists, engineers, human rights practitioners, educators, and interested in larger literature. The last section in this bibliography provides links to online databases where science, technology and human rights intersect.

Unless otherwise noted, suggestions regarding the listings may be sent to the Education group.

### CONTENTS BY TOPIC

Science & Human Rights: General | Right to Benefits of Science (Article 15) | Right to Housing | Right to Water | Rights of Scientists, Engineers & Health Professionals | Education | Environment | Intellectual Property | Further Resources

### CONTENTS BY SUBJECT AREA

## Syllabi on Science and Human Rights

Like 0 Tweet 0 reddit this!

Print

This collection of syllabi related to Science and Human Rights is intended for use by educators from across the scientific disciplines who are interested in incorporating human rights into their curricula and training, as well as for scientists seeking to explore how human rights relate to the practice of their discipline. Each listing is linked to a PDF copy of the corresponding syllabus. We are grateful to all the professors who voluntarily submitted their syllabi to this compilation.

- General
- Anthropology
- Bioethics
- Demography
- Earth Science
- Engineering
- Geography
- Health
- Linguistics
- Medical Ethics
- Medicine
- Philosophy
- Political Science
- Psychology
- Sociology
- Human Rights Training Modules
- Degree Programs
- Further Resources

# Education and Information Resources

## Science, Engineering and Human Rights: A Bibliography

Like 2 Tweet 9 reddit this!

This select annotated bibliography provides a guide to the literature on the relationship between science, engineering and human rights. The following citations are grouped under a variety of headings that explore how human rights relate to the practice of their discipline. Each listing is linked to a PDF copy of the corresponding syllabus. We are grateful to all the professors who voluntarily submitted their syllabi to this compilation.

Whenever an article listed is available online without restrictions, the URL link is provided as a starting point for scientists, engineers, human rights practitioners, educators, and interested parties. The last section in this bibliography provides links to online databases where human rights documents and literature.

Unless otherwise noted, suggestions regarding the listings may be sent to the Education and Information Resources group.

### CONTENTS BY TOPIC

Science & Human Rights: General | Right to Benefits of Science (Article 15) | Right to Housing | Right to Water | Rights of Scientists, Engineers & Health Professionals | Education | Environment | Intellectual Property | Further Resources

### CONTENTS BY SUBJECT AREA

## Syllabi on Science and Human Rights

Like 0 Tweet 0 reddit this!

Print

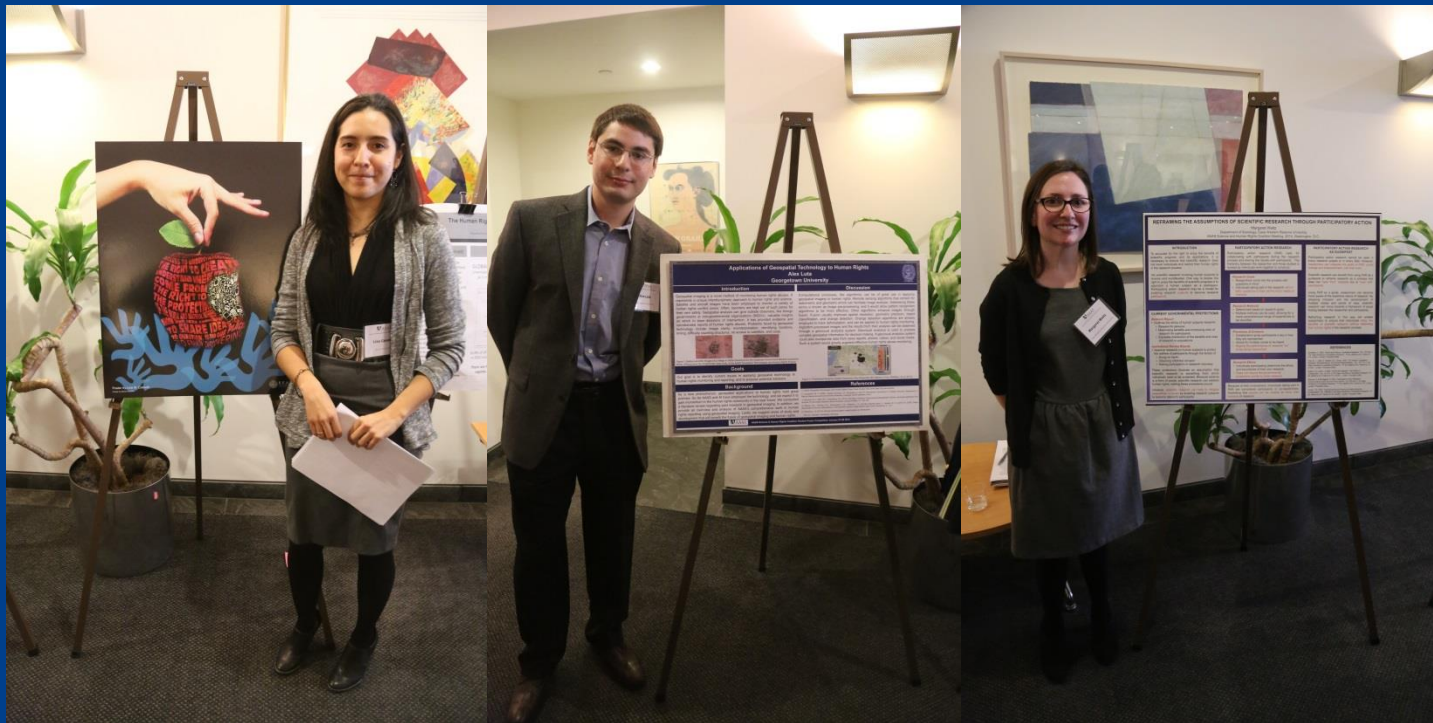
This collection of syllabi related to Science and Human Rights is intended for use by educators from across the scientific disciplines who are interested in incorporating human rights into their curricula and training, as well as for scientists seeking to explore how human rights relate to the practice of their discipline. Each listing is linked to a PDF copy of the corresponding syllabus. We are grateful to all the professors who voluntarily submitted their syllabi to this compilation.

- General
- Anthropology
- Bioethics
- Demography
- Earth Science
- Engineering
- Geography
- Health
- Linguistics
- Medical Ethics
- Medicine
- Philosophy
- Political Science
- Psychology
- Sociology
- Human Rights Training Modules
- Degree Programs
- Further Resources

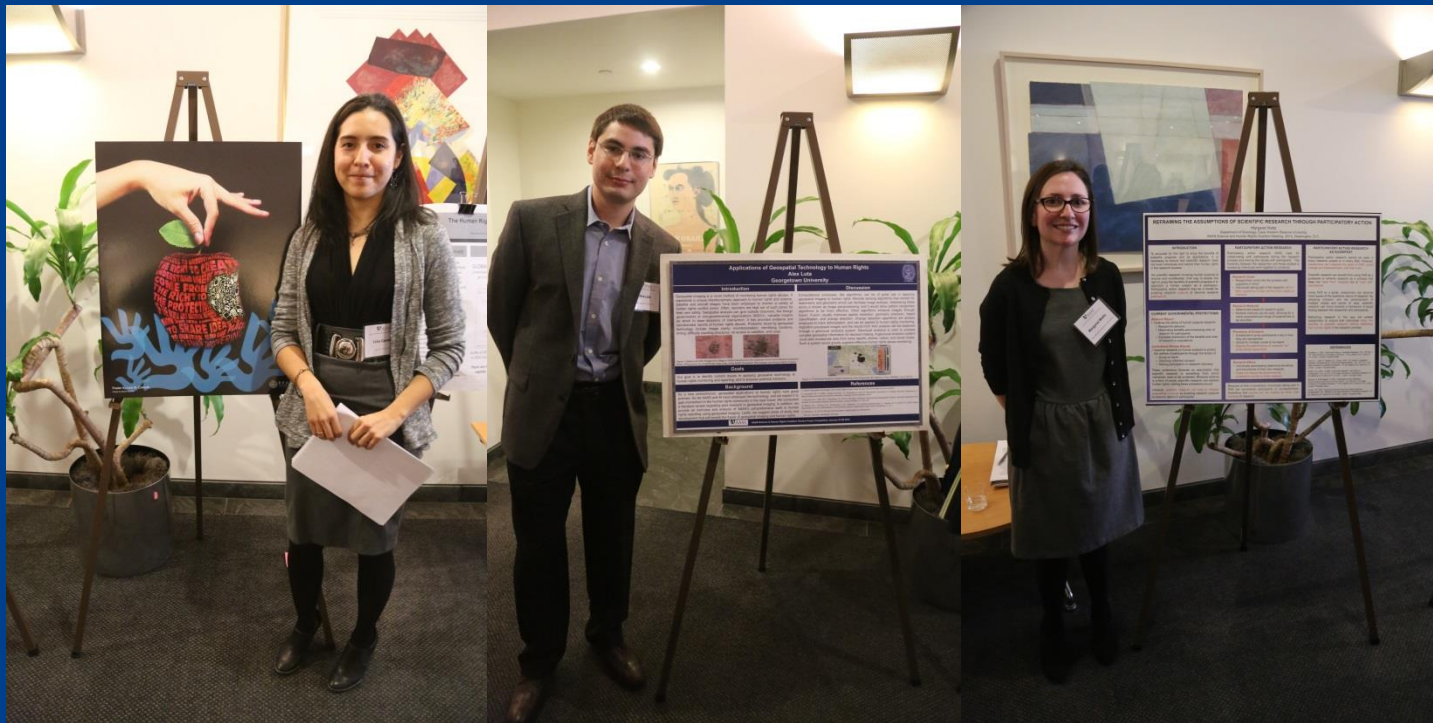
**Considered integrating human rights into your chemistry class?**



## Communication and Outreach



## Communication and Outreach



**Get your students involved!**

## Joint Initiative

### “Article 15”

International Covenant on Economic, Social and Cultural Rights

States shall:

1. recognize the right of everyone to enjoy the benefits of scientific progress and its applications
2. conserve, develop and diffuse science
3. respect the freedom indispensable for scientific research
4. recognize the benefits of international contacts and co-operation in science



## Joint Initiative: The Right to Science

“The comprehensive elucidation of this right, raising awareness of it, its implementation, and the monitoring of its realization require the cooperation and participation of [among others]... **the scientific and academic communities.**”

*Venice Statement (2009), para. 17*



## AAAS

“Recognizing that this right lies at the heart of the AAAS mission and the social responsibilities of scientists,

AAAS will:

pursue opportunities to collaborate with the global scientific community so that the voice, interests and concerns of scientists can be brought to this process [and]

engage the domestic and global scientific communities in defining the content of the right and determining its application to a diverse range of scientific disciplines and issues of concern to the scientific community”

*AAAS Board of Directors, Statement, April 2010*

## Article 15: Focus group process

Acoustics

Astronomy

Chemistry

Ecology

Forensics

Geography

Geology

History

Linguistics

Mechanical Engineering

Medicine (Tropical Medicine and Hygiene)

Philosophy\*

Physics

Psychology

Psychology (Social)

Sociology

Statistics

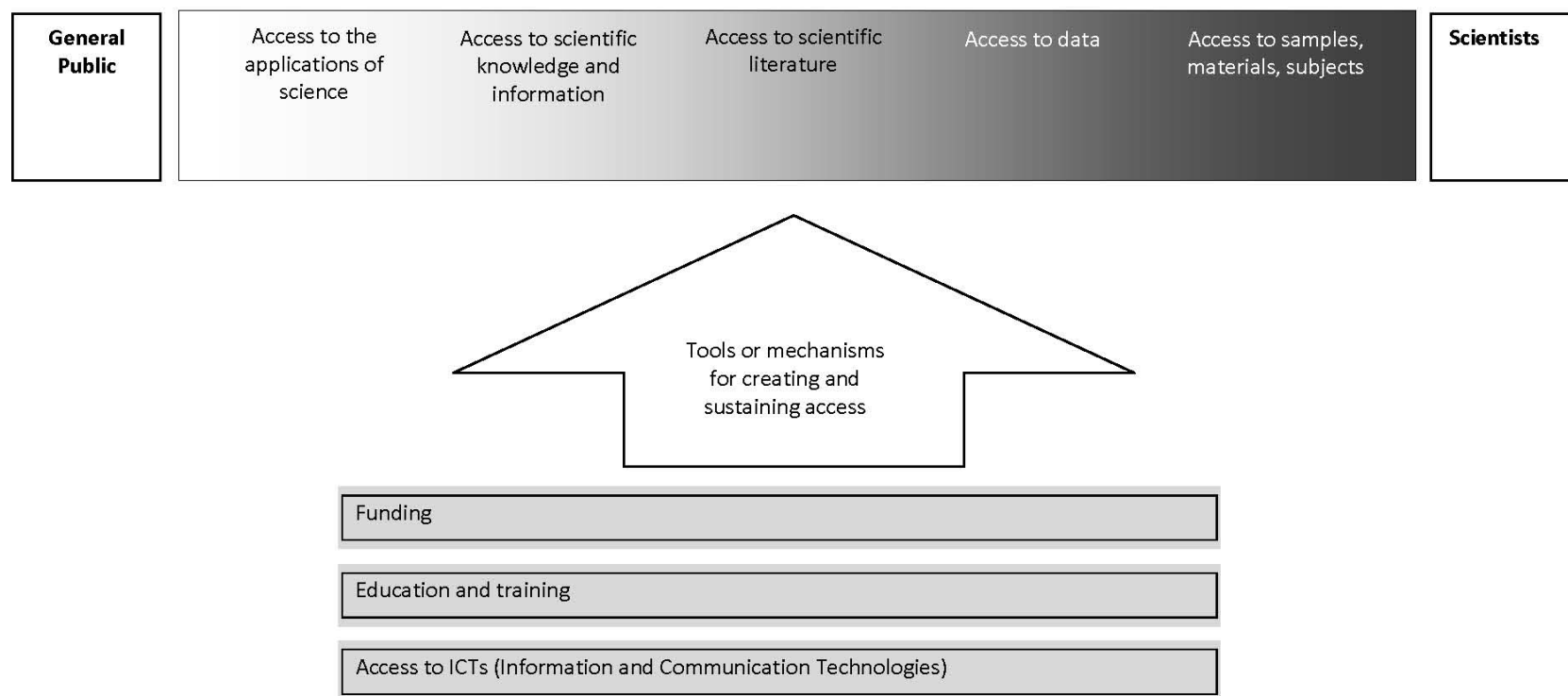
# Ten Most Frequently Mentioned Benefits of Science

Rank	Code
1	Health (including treatment/applications/diagnosis)
2	Advancing knowledge
3	Ecological, environmental, wildlife
4	Education and training
5	Empirical basis for laws/policy/programs
6	Technological/infrastructure applications
7	Understanding of personal behaviors (not health)
8	Advancing methods and technology for science
9	Influence on/of culture
10	Economic impact

*Analysis by Margaret Wieggers Vitullo, American Sociological Association, and Jessica Wyndham with assistance from AAAS interns: Michael Bueno, Elizabeth Inganni, Kate Saylor, Kristina Thorsell, Celestine Warren*



**Diagram 1: Continuum of Access**





# Joint Initiative: The Right to Science

Defining the Right to Enjoy the Benefits of  
Scientific Progress and Its Applications:  
American Scientists' Perspectives



## Engagement in human rights activities

April 24, 2013

General Otto Perez Molina  
President of the Republic of Guatemala  
Casa Presidencial  
6ta. Avenida 4-65 Zona 1.  
Ciudad de Guatemala  
Guatemala.

Dear President Otto Perez Molina:

The American Anthropological Association

**AMSTATNEWS**  
The Membership Magazine of the American Statistical Association

Home » Featured  
**Statistics and Human Rights**  
1 NOVEMBER 2012 1,042 VIEWS NO COMMENT

**ASA participates in for human rights**



All Arab, born in Tunisia, department of statistics (including statisticians) is a freedom when and where these important role in human rights-related and human rights (i.e., data collection and analysis) rights implications of statistics in both statistics as well as serves other disciplines.

On September 13, 2011, 13 ASA members attended a focus group organized by the Science and Human Rights Coalition of the American Association of Science (AAAS SHRC). The goal of the focus group was to identify issues related to the science of statistics and the statistics community. AAAS SHRC has organized sessions with more than a dozen other scientific societies to date.

**ASA and AAAS Science and Human Rights Coalition**  
The ASA has been an active

published October 24, 2012  
**Science and Human Rights: Making the Connection**

Every year I get asked to repeat the "promises" that I began asking all participants in our Summer Institutes to make to one another at our first gathering in 2001. At first, there were three:

- to work hard to fulfill our obligations to those making it possible for us to do our work;
- to be moral today, and
- to use our power to enlarge what we all know.

Around 2005, I added another:

- to encourage intellectual risk but also to reduce damage to those who take risks.

This Summer, I added a fifth:

- to work to enable all to claim their human right to enjoy the benefits of scientific progress and its applications.

This new promise was inspired by our engagement with the Science and Human Rights Coalition of the American Association of Science (AAAS SHRC). AAAS SHRC has organized sessions with more than a dozen other scientific societies to date.

The ASA participants consisted of a diverse group of statisticians from academia, government, and private industry. Members of the focus group discussed many aspects of the role of statistics in human rights problems, as well as rights of

**SENCER**  
SCIENCE EDUCATION FOR NEW CIVIC ENGAGEMENTS AND RESPONSIBILITIES

About SENCER  
Symposia  
Regional Centers  
Resources

**ACS**  
Chemistry for Life®

Publications Meetings Careers  
American Chemical Society Global Community

**Global Community**

International Activities

Travel to the US

Travel Outside the US

Meetings & Activities

Int'l Exchange & Funding

**ACS Human Rights**

ACS offers webinars to inform the public to human rights problems and the applications of chemistry to access to safe water and

Coffee for Justice - Coffee Producers in Latin America

**AAG**  
ASSOCIATION of AMERICAN GEOGRAPHERS

About AAG Membership Annual Meeting Projects & Programs

Interdisciplinary and Strategic Initiatives

AAG-NIH Health Initiatives

Geography and Climate Change

Geography and Climate Change

**ASCE**  
AMERICAN SOCIETY OF CIVIL ENGINEERS

**Register**  
Please register before starting the presentation.

**Applying a Human Rights Framework**  
Date: Thursday, January 24, 2013  
Time: 3:00 PM ET

Now, more than ever, society is looking to world and enhance the global quality of the principles, plans, and processes of the application of human rights. But for the application of human rights, we need general connections between civil engineering and human rights to explore specific opportunities in the discipline.

- Questions that will be addressed:
- What are human rights?
  - How can human rights engineering project work?
  - What responsibility?
  - What potential for civil engineering work?
  - How can human engineering?

Register for this renowned human responsibility, rights lawyer and engineer human right

Speaker:

Jessica Humphrey

Student & Early Career Council

Teaching

Ethical Standards in Research

Links to Other Organizations

**AERA**  
AMERICAN EDUCATIONAL RESEARCH ASSOCIATION

**American Educational Research Association Statement on Human Rights**  
Approved by AERA Council, April 27, 2013

**Background:**

Since its inception the American Educational Research Association (AERA) has supported the free exchange of ideas across national, state, cultural, and social borders. In doing so, the Association affirms the principle that research is essential for fostering a more informed citizenry in the United States and worldwide. By way of its involvement in the human rights activities of the American Association for the Advancement of Science (AAAS) and the Scholars at Risk (SAR) Network, the Association has demonstrated its commitment to the protection not only of members of AERA but also of those who are persecuted or harassed. The Association is committed to the principle of freedom to conduct scientific research without

Statement

System Requirements

Register

System Requirements

Register

System Requirements

Register

System Requirements

Register

System Requirements

Register

System Requirements

Register

System Requirements

Register

System Requirements

Register

System Requirements

Register

System Requirements

**Society for Research in Child Development**

Equity and Justice

Home » About Us » Committees » Equity and Justice

Stacey Horn, Chair

Melanie A. Killen

Rashmita Mistry

Martin Rock

Stephen T. Russell

Adam F. Rutland

Elliot Turiel

Tiffany Yip

Lynn Liben, Governing Council Representative

Guadalupe Espinoza, SECC Representative

Lennie R. Sherrod, Ex Officio

Sarah Mandell, Staff Liaison

2013-2015 ssherr@ucla.edu

2013-2015 mkillen@ucla.edu

2013-2017 rashmita\_mistry@yahoo.com

2011-2015 mrock@ucla.edu

2011-2015 srussell@ucla.edu

2011-2015 rutland@ucla.edu

2011-2015 turtiel@ucla.edu

2011-2015 tyip@ucla.edu

2011-2015 liben@ucla.edu

2011-2015 g.espinoza@ucla.edu

2011-2015 sherrod@ucla.edu

2011-2015 smandell@ucla.edu

Equity and justice are goals for healthy child development and are increasingly a focus of research in developmental science. The need for addressing issues of equity and justice has become especially apparent as the world becomes increasingly global, and as children are living in ever more heterogeneous communities. Reflecting the importance of the topic for scientific inquiry, the SRCD Committee on Equity and Justice has as its mission to: 1) promote the importance and legitimacy of national, international, and interdisciplinary scientific scholarship on topics related to equity and justice in childhood and adolescence; 2) enhance efforts to build coherence and to foster conceptual advances within and across the varied approaches to research on equity and justice; and 3) foster the dissemination and implementation of findings that bear on programs and policies related to equity and justice at both national and international levels.

## Your Role – as a member of ACS:

- ✓ Propose human rights-related symposia for the ACS Annual Meeting
- ✓ Consider participation in the activities of the ACS Committee on International Activities
- ✓ Bring to ACS's attention cases of persecuted chemists (in the US and globally) email: [intlacts@acs.org](mailto:intlacts@acs.org)
- ✓ Propose a career fair for chemists interested in human rights
- ✓ Engage the ACS community by contributing articles on chemistry and human rights in C&E News
- ✓ Start a Chemistry and Human Rights social media group for sharing resources and ideas
- ✓ Through your local section, host a series of chemistry and human rights cafes for the general public

## Your Role – as a concerned chemist:

- ✓ Begin a dialogue with colleagues on human rights issues relevant to your workplace and work practices
- ✓ Communicate to policy-makers your expert opinion on relevant human rights issues
- ✓ Address connections of chemistry and human rights in your research
- ✓ Integrate human rights into your teaching (including clinical opportunities)
- ✓ Write about chemistry and human rights issues in your institutional publications
- ✓ Reach out to local human rights organizations to offer your expertise
- ✓ Join the On-call Scientists network
- ✓ Join the AAAS Science and Human Rights Coalition

# Thank you!

**Jessica Wyndham**

jwyndham@aaas.org  
twitter.com/JMWyndham

**Theresa Harris**

tharris@aaas.org  
twitter.com/TheresaLHarris

**AAAS Scientific Responsibility, Human Rights and  
Law Program**

www.aaas.org/SRHRL  
facebook.com/SRHRL  
twitter.com/AAAS\_SRHRL

# QUESTIONS?

Submit them into your Gotowebinar chat box  
now\*

Or, visit:

[www.acs.org/scienceand  
humanrights](http://www.acs.org/scienceandhumanrights)

\*Unanswered questions will be addressed after the session and posted online at [www.acs.org/scienceandhumanrights](http://www.acs.org/scienceandhumanrights), along with a webinar recording and presentation slides, after the session

# Thank you for tuning in!