

CURRICULUM VITAE

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Biographical Sketch

Dr. Karim-Aly S. Kassam is International Professor of Environmental and Indigenous Studies in the Department of Natural Resources and the American Indian and Indigenous Studies Program at the College of Agriculture and Life Sciences, Cornell University. In 2017 he was awarded the University of Bayreuth (Germany) International Senior Fellowship for his contributions to the Faculty of Biology, Chemistry and Earth Sciences, he was also appointed Associate Editor of the *Journal of Ethnobiology and Ethnomedicine*. Since 2013, he serves as Associate Editor of the *Journal Action Research*. In 2013, Dr. Kassam received the College of Agriculture and Life Sciences Diversity Award for creating and fostering diversity in research and teaching. From 2008 to 2011, he was Director of Graduate Studies of the American Indian and Indigenous Studies Program. Prior to joining Cornell, Dr. Kassam was Associate Professor with the Faculty of Communication and Culture at the University of Calgary, Canada. In 2006, Dr. Kassam received the Teaching Excellence Award from the Students' Union at the University of Calgary. He has also received Teaching Excellence Awards in 1999 and 2002. In 2003, he was the first Canadian to receive the Organization of American States – Fulbright Ecology Fellowship. He developed and established the Theme School in Northern Planning and Development Studies in 1995 and until 2003 was its Director. From 1998 to 2001 Dr. Kassam was the first Murray Fraser Professor of Community Economic Development at the University of Calgary. In 2003, *Venture Magazine* named him one of Alberta's 50 most influential people along with business and political leaders. Dr. Kassam is currently a Fellow of the Commonwealth Society at Cambridge University, Research Associate of the Arctic Institute of North America, Faculty Fellow of the Atkinson Center for a Sustainable Future at Cornell University, Senior Research Fellow of the University of Central Asia, and Elected Member of the Academy of Sciences of the Republic of Tajikistan.

Dr. Kassam holds a PhD in Natural Resource Policy and Management from Cornell University (USA), an MSc in Social Policy and Planning in Developing Countries from the London School of Economics (UK), an MPhil in Islamic Studies from the University of Cambridge (UK), and a BA in Economics from the University of Calgary (Canada). Dr. Kassam has been tenured twice in his career: first, in a largely social science and humanities department; and the second time, in a largely ecological sciences department.

Dr. Kassam's objective is to seamlessly merge teaching with applied research in the service of communities. His research focuses on the complex connectivity of human and environmental relations, addressing indigenous ways of knowing, food sovereignty, sustainable livelihoods, stewardship, and climate change. This research is conducted in partnership with indigenous communities such as the Standing Rock Sioux Nation (USA), the St. Regis Mohawk Tribe (USA) as well as in the Pamir Mountains of Afghanistan and Tajikistan, Kongur Shan Mountains of China, and Alai Mountains of Kyrgyzstan. In 2016, he was awarded 1.35 Million Dollars to lead a project to develop anticipatory capacity for climate change. By investigating the relationship between biological and cultural diversity, Dr. Kassam seeks to expand the foundations of the notion of pluralism.

Languages

Knowledge of: Arabic, French, Gujerati, Kiswahili, Katchi, and Persian, and fluent in English.

Education

Ph.D., Cornell University, USA, 2005.

Major: Natural Resource Policy and Management

Minors: Socio-Cultural Anthropology and Community and Regional Sociology

Dissertation Title: Diversity, Ways of Knowing, and Validity – A Demonstration of Relations between the Biological and the Cultural among Indigenous Peoples of the Circumpolar North

M.Sc., London School of Economics, UK, 1993.

Major: Social Policy & Planning in Developing Countries

Dissertation Title: Social Implications of NGO Promotion of Small-scale Enterprises for Rural Development using Asian and African case studies

M.Phil., Cambridge University, UK, 1992.

Major: Islamic Studies

Dissertation Title: The Idea of Progress in Modern Muslim Thought

Certificate, Institute of Ismaili Studies, UK, 1991.

Major: Islamic Studies

B.A., University of Calgary, Canada, 1987.

Major: Economics

Areas of Expertise

Arctic Studies, Biocultural Diversity, Central Asian Studies, Coupled Socio-cultural and Ecological Systems, Development Studies, Human Ecology, Indigenous Studies, Islamic Studies, Natural Resource Policy, Participatory Action Research, and Pluralism.

Honors, Awards, and Appointments

University of Bayreuth (Germany) International Senior Fellowship (2017-2020).

Associate Editor, *Journal of Ethnobiology and Ethnomedicine* (2017 to present).

Faculty Member, Cornell University Library Board (2016-2020).

Member of Advisory Board of the Reppy Institute of Peace and Conflict Studies, Cornell University (2015 – present).

Elected Board Member, International Society of Ethnobiology (2014-2016).

Associate Editor of the *Action Research* Journal (2014 – present).

College of Agriculture and Life Sciences, Diversity Award for Research and Teaching (2013).

Academician (elected member), Academy of Sciences Republic of Tajikistan (2012 – present).

Senior Research Fellow, University of Central Asia (2010 – present).

Faculty Fellow, Atkinson Center for a Sustainable Future (2009 – present).

International Professor, Cornell University (2007 – present).

Teaching Excellence Award, Students' Union, University of Calgary (2006).

Popular Professor, *Maclean's Guide to Universities* (2004).

Organization of American States – Fulbright Ecology Fellowship (2003 – 2005).

Social Sciences and Humanities Research Council (SSHRC) Doctoral Fellowship (2003 – 2005).

Named one of Alberta's 50 Most Influential People, *Alberta Venture* magazine (2003).

Recognized for Northern Scholarship, Canadian Senate and Public Service Commission (2003).
Teaching Excellence Award, Students' Union, University of Calgary (2002).
Murray Fraser Professor of Community Economic Development (1998 – 2001).
Teaching Excellence Award, Students' Union, University of Calgary (1999).
Research Associate, Arctic Institute of North America (1995 – present).
Fellow of the Cambridge Commonwealth Society (1991).
Aga Khan Foundation Scholarship (1989).

Professional Experience

Independent Evaluator: Mountains Societies Research Institute, University of Central Asia - *pro bono piblico* (2014).
Member, U.S. Steering Committee for the Intergovernmental Platform for Biodiversity and Ecosystem Services (IPBES) (2014-present).
Led Curriculum Development of Earth and Environmental Science Major, University of Central Asia - *pro bono piblico* (2012-14).
Co-Chair, Youth Nature and Outdoor Education Program Work Team - *pro bono piblico* (2013 – present).
NSF Panel Reviewer, Experimental Program to Stimulate Competitive Research (EPSCoR) Reverse Site Visit (RSV) for reviewing the progress of three NSF Research Infrastructure Improvement (RII) Track-1 awards (\$20 Million each) (2013).
Associate Editor, *Action Research Journal*. Editor responsible for manuscripts related to application of indigenous ecological knowledge and participatory action research in an international context - *pro bono piblico* (2013 – present).
Consultant to the University of Central Asia, Lead design and development of the “Earth and Environmental Science” Undergraduate Curriculum - *pro bono piblico* (2012 – present).
Director of Graduate Studies (elected), American Indian and Indigenous Studies Program, Cornell University, Ithaca, NY (2008 – 2011).
Associate Professor of Environmental and Indigenous Studies, Department of Natural Resources and American Indian Program, Cornell University (2007 – present).
Adjunct Professor, Faculty of Communication and Culture, University of Calgary, Calgary, Alberta, Canada (2007 – present).
Lead Consultant, Sociocultural Team, Alaska Canada Rail Link Strategic Environmental Assessment (2006-2007).
Adjunct Professor, Faculty of Environmental Design, University of Calgary (1998 – 2007).
Associate Professor, Faculty of Communication and Culture, University of Calgary (2007).
Assistant Professor, Faculty of Communication and Culture, University of Calgary (2000 – 2007).
Director, Theme School in Northern Planning and Development Studies, University of Calgary (1995 – 2003).
Board Member, Ismaili Tariqa and Religious Education Board for Canada – Participated in policy and program planning for 75,000 Ismaili Muslims across Canada. Led a team that dealt with: (1) issues, concerns and program planning for 15,000 Ismaili Youth and (2) policy and programming with reference to the relationship between religious expression and cultural formation - *pro bono piblico* (1996 – 2002).

Organized Symposium on Canada and September 11th – Raised funding for, and coordinated participation of, nine speakers from NGOs, corporations, the Federal Cabinet, newspaper media, academia, and the Native community - *pro bono piblico* (2002).

Advisor, Committee on the *Inusivut* Exhibit, Glenbow Museum, Calgary – One of four advisory committee members who guided the objectives and messages that this Circumpolar Exhibit will convey. The only academic and non-Inuit member of the advisory team. Responsible for the development of the exhibit and to provide comments on the substance of the ideas to be conveyed to ordinary citizens in order to raise awareness about the Canadian North - *pro bono piblico* (2001 – 2003).

Task Force Member, Expressions of the Pamir – Participated in the conceptualization, organization, and implementation of performances across Canada of 22 performing Artists from the Pamir Mountains of Tajikistan and 8000 square feet exhibition of art and artifacts from Central Asia. Total cost of the project was approximately \$1 Million, which was raised from private donors, and 3000 volunteers across Canada gave of their time and energy - *pro bono piblico* (1998 – 1999).

Facilitator, Canadian Polar Commission – Developed the Three Year Strategic Road Map for the Minister and Commissioners as a service to Canada (1999).

Instructor II, Faculty of Communication and Culture, University of Calgary (1995 – 2000).

Instructor, Faculty of Environmental Design (1994 – 1995).

Manager of Professional Services, Arctic Institute of North America, University of Calgary (1994 – 1995).

Member of Design Team, Third World Planning for Real, London School of Economics, UK – Developed a model for an inexpensive and effective means of community participation for the identification of needs and implementation of solutions - *pro bono piblico* (1993).

Researcher, Ismaili Council of Syria, Examined the impact of six year drought on agricultural communities and made recommendations for responses - *pro bono piblico* (1991).

Business Research Analyst, Ministry of Economic Development and Trade, Alberta Government (1987 – 1989).

President, World University Service of Canada – Established the first Refugee Sponsorship Program at an Alberta University by creating a student funded endowment which enables students to sponsor a new refugee student annually for undergraduate study and receive Canadian Landed Immigrant status - *pro bono piblico* (1985 – 1987).

Independent Evaluator, Aga Khan Rural Support Program (AKRSP), Pakistan (1985).

Graduate Field Membership

American Indian and Indigenous Studies

Asian Studies

International Agriculture and Rural Development

Natural Resources

Peace and Conflict Studies

Teaching Responsibilities

Cornell University

Ways of Knowing: Indigenous and Place-based Ecological Knowledge (2008 – present).

Socio-cultural and Ecological Role of Diversity (2009 – present).
 Global Seminar: Building Sustainable Environments and Secure Food Systems (2013 – present).
 American Indian Studies II: Indigenous Issues in Global Perspectives (2010 – present).
 Food Systems and Poverty Reduction: Concepts and Themes – Module on Culture, Community and Indigenous knowledge (2010 – 2013).
 Food Systems and Poverty Reduction: Integration – Module on Climate Change and its Impact on Food Systems (2011 – 2013).

University of Calgary

Critical Perspectives of Development Practice and Resource Management (2005 – 2007).
 Sustainability and Human Ecology in the Circumpolar Arctic (2005 – 2007).
 Traditional Environmental Knowledge and Northern Development (2002 – 2007).
 Northern Development and Resource Management I (1995 – 2003).
 Northern Development and Resource Management II (1996 – 2003).
 Gender and Strategic Planning (1996 – 2003).
 Individual Internship Project – Service Learning (1995 – 2003).
 Group Internship Project – Service Learning (1995 – 2003).
 Development of the Canadian North (2003).
 Women’s Empowerment through Development (2000).

Student Mentoring and Advising

Post-Doctoral Associates/Fellows

2015-present	Morgan Ruelle, PhD
2015-2017	Zahra Golshani, PhD

Graduate Students—Committee Chair

2017-present	Leo V Louis (MS, PhD)
2017-present	Ellen Nevers (MPS)
2016-present	Talia Chorover (MS)
2016-present	Abraham Francis (MS)
2016-present	Kayla Scheimreif (MS)
2014-present	Michael Dunaway (PhD)
2014-2016	Michelangelo Lieberman (MPS)
2013-2015	Rajeev Goyal (MPS)
2011-2017	Murodbek Laldjebaev (PhD)
2010-2015	Chuan Liao (MS, PhD)
2009-2015	Michelle Baumflek (PhD)
2009-2012	Nicole Wilson (MS)
2008-2015	Morgan Ruelle (MS, PhD)
2008-2015	Jeffrey Wall (MPS, MS)
2000-2003	Darwin Peter Bateyko (MDP)
1998-2003	Robert A. Hawkesworth (MA)

Graduate Students—Committee Member/Examiner

2015-2017	Shoshana Perey (MS)
2010-2013	Robert Hunter (PhD)
2008-present	Robert Beazley (MS, PhD)
2002	Jennifer McKillop (MDP)
2000-2002	Frederick McDonald (MFA)

Visiting Fellows

2018	Aziz Ali
2010	Umed Bulbulshoev
2010	Munira Karamkhudoeva

Undergraduate Honours Students—Research Advisor

2016-2017	Tamar Law
2015-2016	Anna Brown
2015-2016	Kelsey Poljacik
2009-2011	Sherry Martin
2006-2007	Tara Collins
2002-2003	May Mah

Undergraduate Research Assistants

2017-present	Madeline Rich
2016	Nancy Cheng
2015-present	Jillian Solomon
2008-2012	Phoenix Storm Paz
2006	Lesley Campbell
2006	Tara Collins
2006	Jeffery Halvorsen
2006	Heath McLeod

Service

Cornell University

Member of Nepal and Himalayan Studies Advisory Committee (2017 – present).

Member of South Asia Program Advisory Committee (2017 – present).

Member of MPS Degree Programs Review Committee for the Global Development Graduate Field at Cornell University (2017 – present) – assess and make recommendations to the Dean of the Graduate School on the future of Master of Professional Studies in Agriculture and Life Sciences and Master of Professional Studies in International Development.

Member of Cornell University Library Board (2016 – present) – help formulate library policy for Cornell’s Library system (\$60 Million) and serve as an advocate for the University Libraries.

Member of Faculty Task Force on Curricular Practical Training (CPT) at Cornell University (2016 – present) – make policy recommendations to Vice Provost for International Affairs on Internships at Cornell University.

Co-Organizer of Department of Natural Resources Seminar Committee (2015 – present).

Member of Department of Natural Resources Post-Doctoral Committee (2015).

Member of Department of Natural Resources Graduate Admissions Committee (2013 – 2016).
Member, Language Task Force of the Provost, Cornell University – Developed policy for language instruction at Cornell University based on significance of languages to cognitive diversity and the role of indigenous languages in applied biological and social science research as well as the humanities (2013).
Member, Land Grant Reconsidered – Sesquicentennial Celebrations (2012 – 2014).
Faculty Fellow, American Indian & Indigenous Studies, Cornell University (2012 – 2013).
Reviewer, Foreign Language and Area Studies (FLAS) Fellowship, Selection Committee, South Asia Program (2010; 2013).
Grant Reviewer, Institute of Social Science (2010).
Elected Member, Diversity Committee of the College of Agriculture and Life Sciences (2008 – 2013).
Elected, Director of Graduate Studies, American Indian Program (2008 – 2011).
Member, Seminar Committee, Department of Natural Resources (2008).
Faculty Fellow, American Indian program (2008).
Member, Department of Natural Resources, Graduate Students Speakers Selection Committee – Planned a speaking event on Gorilla Conservation in Rwanda with attendance of 350 members of the Ithaca Community and ensured front page coverage in the *Ithaca Journal* (2004).

University of Calgary

Member, Faculty of Communication and Culture's Committee on Appeals (2000 – 2007).
Elected Member, Faculty of Communication and Culture's Curriculum Committee (2005 – 2007).
Representative of the Faculty of Communication and Culture to the Faculty of Environmental Design (2005 – 2007).
Member, The Ernest C. Manning Endowment Campaign for The Program For Canadian Studies, Faculty of Communication and Culture, University of Calgary (2001 – 2003).
Elected Member, Faculty Promotions Committee, Faculty of Communication and Culture (2002).
Member, Selection Committee for Curator of Numismatics, Nickel Arts Museum (2000).
Member of Council, Division of International Development of the International Centre (1995 – 2000).
Member, Grant Review Committee, Northern Scientific Training Program, University of Calgary. (1994 – 2001).
Acting Executive Director, The Arctic Institute of North America in the absence of the Executive Director (1994 – 1999).

Professional Organizations

Member, Arctic Institute of North America
Member, Association of American Geographers
Founding Member, Association for Environmental Studies and Sciences
Member, Ecological Society of America
Member, International Society of Ethnobiology
Member, International Society for the Study of Religion, Nature and Culture
Member, Society for Applied Anthropology

Research Funding

Role: Lead Principal Investigator

Project: Ecological Calendars and Climate Adaptation in the Pamirs (2016-2019)

Funding Agency: Belmont Forum, including National Science Foundation USA (\$1.35 million)

Overarching Objective: To build anticipatory capacity for climate change among mountain communities through the revitalization of ecological calendars.

Specific Objectives: (1) Conduct participatory action research with indigenous communities in the Pamir Mountains to document and analyze calendars of the human body and other existing ecological calendars; (2) Revitalize and recalibrate ecological calendars by integrating indigenous ecological knowledge with scientific data; (3) Test ecological calendars with the four Pamiri communities; (4) Facilitate transfer of knowledge between communities in different bioclimatic zones; (5) Develop curricula for inter-generational transfer and adaptation of calendars; (6) Establish proof-of-concept for ecological calendars in mountain societies globally; (7) Host an international conference focusing on ecological calendars for improving food security and community resilience.

Role: Principal Investigator

Project: Engaging Environmental Education through Teen Experiential Learning Programs (2016-2018)

Funding Agency: Federal Formula Funds from the National Institute for Food & Agriculture (NIFA) of the USDA (\$27,500).

Objectives: Develop curriculum to engender an ecological stewardship ethic through experiential engagement of 4H Youth Outdoor Education Programs.

Role: Principal Investigator

Project: Sustainable Forest Communities: Integrated Land Stewardship Strategy for Native American Land Claims (2015-2018)

Funding Agency: USDA National Institute of Food and Agriculture, McIntire Stennis Federal Capacity Funds (\$80,110)

Overarching Objective: To create an integrated biocultural land stewardship strategy for existing and newly settled land claims of the St. Regis Mohawk Tribe.

Specific Objectives: (1) In partnership with Native American Governance Institutions, develop a framework for collaborative applied research in sustainable forest use, addressing ecological, economic, and sociocultural needs; (2) Undertake a comprehensive biocultural land use study of existing lands and newly settled land claims of the St. Regis Mohawk Tribe in the Northern Forest; (3) Develop an innovative, comprehensive, and culturally relevant stewardship strategy for existing and newly settled land claims of the St. Regis Mohawk Tribe; and (4) Create audio visual curriculum material on sustainable forest use and biocultural land stewardship for use in high school and undergraduate environmental science education.

Role: Principal Investigator

Project: Ecological Calendars to Anticipate Climate Change (2015-18)

Funding Agency: Atkinson Center for a Sustainable Future (ACSF): Academic Venture Fund (\$98,956)

Additional Award: \$1000 Poster Competition on Research Findings (2016)

Overarching Objective: To build anticipatory capacity for climate change at the level of the community through the revitalization and development of ecological calendars.

Specific Objectives: (1) Conduct participatory action research with indigenous and rural communities to identify key vulnerabilities affecting communities' livelihoods and food systems and to document and archive existing ecological calendars, as well as ecological knowledge that could inform such calendars; (2) Analyze and integrate local and indigenous knowledge, historical weather data, herbarium specimens, phenological records, and future climate projections to guide the development of ecological calendars; (3) Translate this transdisciplinary knowledge to revitalize and inform new ecological calendars in light of increasing climatic variation and apply them in specific indigenous and rural communities; (4) Host a high profile international conference focusing on ecological calendars for improving food security, enhancing climate literacy, and building community resilience; and (5) Develop sustainable mechanisms for inter-generational transfer of this ecological knowledge to youth so that these calendars continue to inform climate change adaptation.

Role: Principal Investigator

Project: Igniting Innovation and Knowledge Exchange for Food and Health Sovereignty in Indigenous Mountain Communities (2014-15)

Funding Agency: Atkinson Center for a Sustainable Future (ACSF): Rapid Response Fund (\$14,405)

Objectives: 1) To spark knowledge exchange about food and health sovereignty in indigenous mountain communities; 2) To forge a network of researchers and practitioners working for food and health sovereignty in indigenous mountain communities; and 3) To identify and develop effective communication strategies for researchers and practitioners to sustain linkages for indigenous food and health sovereignty initiatives.

Role: Principal Investigator

Project: Earth and Environmental Science Curriculum Development for an International University in Mountain Societies (2014)

Funding Agency: South Asia Program: Internationalization Faculty Award (\$1500)

Objectives: To develop Concept Note that sets out the guidelines for curriculum development of the Earth and Environmental Science Major for the University of Central Asia.

Role: Principal Investigator

Project: Engaging Environmental Education through Teen Experiential Learning Programs (2013-2016)

Funding Agency: Federal Formula Funds from the National Institute for Food & Agriculture (NIFA) of the USDA (\$75,000).

Objectives: Through experiential engagement with sustainability, youth will understand the implications of their individual and collective behavior on their environment, food production system, and their personal and community food sovereignty.

Role: Co-Principal Investigator

Project: Blueprint for Sustainable, Ecologically-based, Watershed Management in China:

A Workshop on Lessons Learned Globally (2011).

Funding Agency: Sean Jeffrey Lehman Fund for Scholarly Exchange with China, Cornell University (\$15,000).

Objectives: Address the socio-cultural dimensions of watershed management and present findings at an international workshop in China.

Role: Co-Principal Investigator

Project: Pluralism in Crisis (2010-2011).

Funding Agency: Scottish Institute for Advanced Studies (£25,000).

Objectives: Create a dynamic interdisciplinary forum for responding to public and scholarly debate over whether and when diversity and complexity are a source of strength or weakness in crisis situations, focusing on current policy-making, particularly on cultural/religious cohesion, ecological integrity, conflict, and development – This project is a continuation of the Beyond Diversity: Re-situating Pluralism Project. Three workshops were held in 2010 at the University of Glasgow Scotland with a larger and committed group of multidisciplinary scholars. Emphasis was placed on establishing a common vocabulary and initiating collaborative research projects.

Role: Principal Investigator

Project: Guidelines for Incorporating Biocultural Diversity into Northern Forest Resource Management (2009-2012).

Funding Agency: Northeastern States Research Cooperative (\$100,214).

Objectives: Develop stewardship guidelines for incorporating biological and cultural diversity into Northern Forest resource management – In collaboration with Mi'kmaq and Maliseet communities of northern Maine, this applied research project focuses on access to non-timber forest products for indigenous communities with specific emphasis on medicinal plants. Research outcomes will be incorporated into curriculum material for public schools in Maine and undergraduate curriculum. Specifically stewardship guidelines will be prepared for tribal governance and other resource management agencies.

Role: Co-Principal Investigator

Project: Bridging Learners with Practitioners: Interdisciplinary Experiential Learning in Conservation Science using Conservation Bridge (2009-2013).

Funding Agency: National Science Foundation (\$149,698).

Objectives: Test a new coupled human ecological systems model of engaging students in conservation science using authentic and service learning educational paradigms that develop collaborative and analytical skills to work across disciplinary and cultural boundaries – We are developing case studies addressing major conservation issues linking civil society institutions with undergraduate students internationally at Beijing Normal University, University of Central Asia, and Cornell. A video and case study entitled “Climate change, food, and ‘sharing’ among the Iñupiat of Wainwright, Alaska (2011)” have already been prepared.

Role: Principal Investigator

Project: Beyond Diversity: Re-Situating Pluralism (2008-2011).

Funding Agency: Cornell Center for a Sustainable Future (\$12,000), Institute of Social Science (\$5000), American Indian Program (\$1500); and the Einaudi International Center (\$1000).

Objectives: Engage a multi-disciplinary group of scholars and leaders from civil society institutions in developing a new vocabulary around the notion of pluralism – In 2009, a multidisciplinary team gathered at the Department of Natural Resource’s Shackleton Research Station for three days to begin examining the socio-cultural and ecological basis for pluralism. A resulting study examining the ecological basis for pluralism entitled “Pluralism, Resilience, and the Ecology of Survival: Case Studies from the Pamir Mountains of Afghanistan (2010)” was published.

Role: Co-Principal Investigator

Project: Response of Coupled Socio-Cultural and Natural Systems to Development Projects in Complex Landscapes of Northwestern Yunnan, China: A Study of Conservation and Sustainable Development (2008-2009).

Funding Agency: Sean Jeffrey Lehman Fund for Scholarly Exchange with China (\$15,000).

Objectives: Focus attention of a multidisciplinary team of conservation and environmental professionals on a very important region in China facing rapid change in order to serve as a model for studying coupled socio-cultural and natural systems – Developed field-based case study that identifies key research and development issues thereby setting priorities for collaborative efforts. A journal article entitled “Coupled socio-cultural and ecological systems at the margins: Arctic and Alpine cases (2010)” based on deliberations at a workshop held in China was published. This project led to a new initiative for a Blueprint for Sustainable, Ecologically-based, Watershed Management in China (2011).

Role: Principal Investigator

Project: Indigenous People, Alpine Human Ecology, and Change in the Pamir Mountains of Afghanistan and Tajikistan (2007-2012).

Funding Agency: Christensen Fund (\$158,300).

Objectives: Assess the resilience capacity and develop relevant adaptation strategies resulting from ecological and socio-cultural changes in the Pamir of Afghanistan and Tajikistan – By incorporating a human ecological lens that is sensitive to the indigenous and mountainous population of the Pamir, this project advances the maintenance of biological and cultural diversity while addressing change. Specific biocultural concerns of this project are: How do we ground truth and develop a strategy for applied biocultural research based on the preliminary findings from 2006; What are the productive and strategic biocultural needs for Pamir communities to sustain livelihoods; How can local and institutional knowledge be leveraged for biocultural diversity conservation; How can we develop an internationally recognized university curriculum for human ecology that is sensitive to indigenous biocultural diversity in the Pamir; and How can other indigenous communities (in North America) contribute their knowledge, experiences, and expertise to the indigenous peoples of the Pamir? Publications resulting from this research include: “Viewing change through the prism of indigenous Human Ecology: Findings from the Afghan and Tajik Pamirs (2009)” and “Medicinal plant use and Health Sovereignty: Findings from the Tajik and Afghan Pamirs (2010).”

Role: Principal Investigator

Project: Indigenous Knowledge, Food Security, and Bio-Cultural Diversity in Badakhshan Afghanistan and Tajikistan (2006-2007).

Funding Agency: Christensen Fund (\$30,000).

Objectives: Explore the level of indigenous knowledge use in Afghan and Tajik Badakhshan; facilitate a link between indigenous and institutional knowledge; and develop a long term research project – Conducted research in 14 villages with over 120 community members in 5 different valleys of Badakhshan. Preliminary research indicated that there is significant climatic change in these mountainous regions with dramatic biological and cultural implications; indigenous knowledge regarding medicinal plants is widely used; opium addiction is a major challenge in the Wakhan corridor of Afghanistan; and sacred places are key to understanding indigenous human ecological relations. This resulted in the project on Indigenous People, Alpine Human Ecology, and Change in the Pamir Mountains of Afghanistan and Tajikistan.

Role: Co-Principal Investigator

Project: Shastri Applied Research Project (SHARP): Building Capacities of Rural Communities through People's Institutions: Self-Help Groups (SHGs) as Channels for Infrastructure Development and Economic Empowerment (2003-6).

Funding Agency: Canadian International Development Agency and the Shastri-Indo-Canadian Institute (\$96,664).

Objectives: Build capacities of SHGs either for creating new, or strengthening the already existing infrastructure for empowering rural communities – This region is a dense rainforest rich in natural resources populated by tribal communities. Infrastructure included primary schools, primary health centers, markets, communication and transport networks and opportunities for skill acquisition or upgrading. Undertook infrastructure mapping of 456 settlements in the forest region. The Project initiated the creation of an SHG federation, supported a theatre group comprising exclusively of SHG members, and organized interactive meetings and training sessions for SHG members. The Project established means of communication between the people of the forest region and various state level government departments. Undertook human ecological mapping to illustrate the biocultural diversity of the region. Interviewed and analyzed 8 Canadian peoples' institutions to identify best practices for self-help organizations. Results were published in a journal article entitled "Fièrè: Effective practices in self-help institutions (2007)."

Role: Co-Principal Investigator

Project: Linking Remote-sensing Information with Natural History and Traditional Knowledge through Case Studies of Unusual Sea Ice Conditions Project (1999-2001).

Funding Agency: National science Foundation (\$24,000).

Objectives: Demonstrate the value of facilitating communications between scientific and community-based environmental observers (i.e., local hunters), and to evaluate mechanisms for improving predictions of sea ice changes based on analyzing past events – The project explored the feasibility and practical applications of combining remotely-sensed information on episodes of change in sea-ice conditions with surface observations of abnormal sea-ice events based on the traditional knowledge of the Arctic marine community of Wainwright, Alaska. Results were published in Chapter 5 of *Biocultural Diversity and Indigenous Ways of Knowing* (2009).

Role: Co-Principal Investigator

Project: The Empowerment of Women: The Role of Indigenous Women in Forestry Development (1998-2001).

Funding Agency: Canadian International Development Agency and the Shastri-Indo-Canadian Institute (\$100,000).

Objectives: Examine the gender roles of indigenous women in India and Canada in forest communities, and relate these to their participation in economic activities – The project explored how gender issues are represented in policies and programs, and assessed the role of women in the use and control of forest resources. The aim was to derive concrete outputs that will have practical application in policy and practice for women’s participation in forestry activities in Canada and India. Four community researchers were trained in both communities and validation of research has been completed. Twelve graduate and undergraduate students participated in research activities related to this project. A book entitled *So That Our Voices Are Heard* (2001) was published.

Role: Co-Principal Investigator

Project: The Human Ecology and the Impact of Chemical Pollutants on Arctic Marine Communities Project (1998-2001).

Funding Agency: National Oceanic and Atmospheric Association (\$200,000).

Objectives: Examine the impact of chemical pollutants on the human ecology of three Arctic marine communities whose livelihood and food sources are dependent on marine resources: Ulukhaktok (Holman), NWT, Canada, on the western extent of Victoria Island in the Beaufort Sea; Wainwright, Alaska, USA, located on the North Slope of the state (within the U.S. National Petroleum Reserve); and Novoe Chaplino, Russia located (in a highly militarized zone) on the Chukotka Peninsula – Led the Human Ecology component of a collaborative Canada/U.S. research initiative involving researchers from the University of Alaska, North Slope of Alaska’s Department of Wildlife Management, Environment Canada and the University of Calgary. Ten undergraduate students participated in undertaking research on this project. Ten community members across the three Arctic communities were trained to collect scientific and indigenous knowledge that will help to clarify the impact of chemical pollutants on the indigenous peoples of the regions. This information had immediate impact on the formulation of policies related to future industrial development and the existing subsistence economies of the region. *Passing on the Knowledge* (2001), a book describing the indigenous human ecology of Wainwright, Alaska was published. Human ecological knowledge of Ulukhaktok (Holman) was published in Chapter 4 of *Biocultural Diversity and Indigenous Ways of Knowing* (2009).

Role: Co-Principal Investigator

Project: The Russian Sami Co-Management Project (1995-1998).

Funding Agency: Gorbachev Foundation (\$95,000).

Objectives: Introduce the concept of natural resources co-management to Russia, utilizing participatory action research and Russian research trainees – The project was initiated by The Russian Kola Sami Association and undertaken in collaboration with the Arctic Institute of North America and the Institute of Ethnology and Anthropology, Russian Academy of Sciences, in 1995. A set of land-use and occupancy maps were prepared for the first time in the Kola Peninsula and

published in the book *Sami Potatoes: Living with Reindeer and Perestroika* (1998). A Russian edition was published in 2000.

Publications

Journal Articles

- Kassam, K-A.S., Ruelle, M.L., Samimi, C. Trabucco, A. Xu, J. 2018. Anticipating Climatic Variability: The Potential of Ecological Calendars. *Human Ecology*, 46(2): 249-257. Online: <https://doi.org/10.1007/s10745-018-9970-5>
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- Ruelle, M.L., Kassam, K-A., Asfaw, Z. 2017. Human ecology of sacred space: Church forests in the highlands of northwestern Ethiopia. *Environmental Conservation*, 1-10. DOI: 10.1017/S0376892917000534
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Invited Essays

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Joppa, L.N., Boyd, J.W., Duke, C.S., Hampton, S., Jackson, S.T., Jacobs, K.L., Kassam, K-A.S., Mooney, H.A., Ogden, L.A., Ruckelshaus, M., & Shogren, J.F. 2016. Government: Plan for ecosystem services. *Science* 351(6277): 1037.

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Book Reviews

Katherine L. Reedy-Maschner. *Aleut Identities*. In *Sibirica*, 13 (3): 93–108, 2014

Thibault Martin and Steven M. Hoffman (Editors). *Power Struggles: Hydro Development and First Nations in Manitoba and Quebec*. In *American Indian Culture and Research Journal*, 35(2). 2011.

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- Milton Freeman et al. *Inuit Whaling and Sustainability*. In *Arctic* 54(3) 2001.
- Robert Wheelersburg (Editor) *Northern People, Southern States: Maintaining Ethnicities in the Circumpolar World*. In *Arctic* 51(1) 1998.
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Posters

- Kassam, K-A. 2016. Using Traditional Calendars to Adapt to Climate Change. American Geophysical Union's Thriving Earth Exchange, AGU Fall Meeting, San Francisco, California December 14th, 2016.
- Kassam, K-A. Chorover, T. Francis, A. Law, T. Ruelle, M. Scheimreif, K. 2016. Ecological Calendars to Anticipate Climate Change. Atkinson Center for a Sustainable Future Poster/Pitch Competition, Ithaca, New York, October 28th, 2016. Received \$1000 Award.
- Lassoie, J.P., R.J. Herring, and K-A. Kassam. 2013. Bridging learners with practitioners: Interdisciplinary experiential learning in conservation science using Conservation Bridge. Poster. In: Proceedings for the 2013 NSF/AAAS TUES Principal Investigators Conference: Transforming Undergraduate Education in STEM (TUES): Building a Community to Transform Undergraduate STEM Education, Washington, DC, 23-25 January 2013. p. 32-33.

Policy Documents

- Kassam, K-A. 2014. Independent Assessment: *Mountains Societies Research Institute*. Bishkek (Kyrgyz Republic): University of Central Asia. Pg. 42.
- Kassam, K-A. 2014. *Earth and Environmental Sciences Undergraduate Integrative Major: Concept Paper*. Bishkek (Kyrgyz Republic): University of Central Asia. Pg. 143.
- Kassam, K-A. 2006. *Strategic Level Social Impact Assessment of Alaska-Canada Rail Link (ACRL)*. Publication of the Macleod Institute, University of Calgary.
- Kassam, K-A. 1995. *A Strategic Planning Guide for Cancer Control Programmes of the World Health Organization*. Publication of the Arctic Institute of North America.
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- Robinson, M. & Kassam, K-A. 1994. *Gwich'in Financial Road Map Developed by the Delegates at the Gwich'in Financial Roundtable*. Publication of the Arctic Institute of North America.
- Kassam, K-A. 1991. *Economic Conditions of the Syrian Jamat*. The Ismaili Council of Syria.
- Kassam, K-A. 1989. *Statistical/Economic Profile of Stettler, Alberta*. Ministry of Economic Development and Trade.
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- Kassam, K-A. 1986. *A Pilot Study on the Possibility of Private Interest in the Marketing of Apricots in the Northern Areas of Pakistan*. The Aga Khan Rural Support Programme Pakistan.
- Kassam, K-A. 1985. *In the Shadow of the Karakoram: A Case Study of Five Villages in Hunza and Gilgit*. The Aga Khan Rural Support Programme Pakistan.

Reviewer for Journals and Presses

Action Research Journal; Agriculture and Human Values; Arctic; Canadian Journal of Communication; Canadian Journal of Education; Canadian Slavonic Papers; Current Anthropology; Ecology and Society; Gender and Society; Human Ecology; International Journal of Diversity in Organizations, Communities and Nations; Journal of Natural Resources Policy Research; Polar Record; University of Calgary Press; University of Arizona Press.

Academic Conference, Seminar, and Workshop Presentations

- Speaking Truth to Power with Grace and Humility: Scholarly Diplomacy in the Twenty-First Century, Institute of Diplomacy, Ministry of Foreign Affairs of the Republic of Afghanistan, June 26th, 2018, Kabul, Afghanistan.
- The Role of Afghan Youth in Stewarding the Planet, Live presentation to the Universities of Televised Presentation to the Universities Bamyán, Faizabad, and Herat, Lincoln Learning Centre Broadcast, Embassy of the United States of America in Afghanistan, June 26th, 2018, Kabul, Afghanistan.
- Climate Change Impacts at the Local Level: Need for Anticipatory Capacity, American University of Afghanistan, June 26th, 2018, Kabul, Afghanistan.
- The Role of Diversity and Pluralism in Achieving Food Security: The Untold Story of Afghanistan – Presidential Palace of the Republic of Afghanistan, Symposium on Climate Change and Food Security, June 25th, 2018, Kabul, Afghanistan.
- Building Adaptive Capacity for Climate Change: The Potential of Ecological Calendars in Afghanistan – Presidential Palace of the Republic of Afghanistan, Symposium on Climate Change and Food Security, June 25th, 2018, Kabul, Afghanistan.
- Addressing Climate Change through Ecological Calendars and Peaceful Pluralism: Lessons from Afghanistan and Central Asia – Embassy of Canada in Afghanistan, June 24th, 2018, Kabul, Afghanistan.
- Anticipatory Capacity for Climate Change: Ecological Calendars, Geographisches Kolloquium, University wide Colloquium in Geography, Part of Activities of Senior Research Fellowship at University of Bayreuth, June 6th, 2018, Bayreuth, Germany.
- Biocultural Diversity and Its Significance for Food Security: Ecology of Pluralism, Graduate Seminar: Geographies of Environment & Development, Part of Activities of Senior Research Fellowship at University of Bayreuth, May 30th, 2018, Bayreuth, Germany.
- Anticipation and Response to Climatic and Environmental Change by Local Communities, co-Organized three 90 minute Panels at the Annual Meeting of American Association of Geographers (AAG) with 15 speakers, April 10th, 2018, New Orleans, Louisiana (USA).

Anthropogenic Climate Change, Anxiety, and the Sacred: The Role of Ecological Calendars, GSA Symposium – Department of Natural Resources, January 19th, 2018, Cornell University, Ithaca New York.

Transdisciplinary Processes and Community Partnerships to Anticipate Climate Change, Science to Action: Communities Solve Problems with Science and Scientists, American Geophysical Union – Fall Meeting, December 14th, 2017, New Orleans, Louisiana.

Imperative for International Research: To Whom Much Is Given Much Is Expected, Scientific Freedom & International Movement Policy Forum, American Geophysical Union – Fall Meeting, December 13th, 2017, New Orleans, Louisiana.

Co-generating Knowledge to Build Anticipatory Capacity for Climatic Change at the Local Level: The Role of Ecological Calendars, GIZ Country Headquarters, June 14th, 2017, Bishkek, Kyrgyzstan.

Speaking Truth to Power with Humility and Grace, Vanguard of the Knowledge Society ISTAR 2017 National Conference, May 20th, 2017, Vancouver, British Columbia.

Exploring the Dynamic Cultural, Ecological, and Indigenous Knowledge Dimensions of Food Sovereignty, Agroecology, Food, Justice & Wellbeing Conference, May 13th, 2017, Ithaca, New York.

Co-generating Knowledge to Build Anticipatory Capacity for Climatic Change at the Local Level: The Role of Ecological Calendars, Forest & Rangeland Stewardship Seminar, May 4th, 2017, Colorado State University, Fort Collins, Colorado

Ecological Time, Climate Change, and the Sacred, Mountains as Sacred Landscapes, April 30th, 2017, New School, New York, New York.

Engaging Environmental Education Through Teen Experiential Learning, County Campus Collaboration on Ecology and Education, STEM Retreat Cornell Cooperative Extension, April 10th, 2017, Cornell University, Ithaca, New York.

Developing A Pedagogy of Hope: Speaking Truth to Power with Grace and Humility, March 31st, 2017, Chalmers University, Goteborg, Sweden.

A Narrative for Medical Professionals: Action Research, Ecological Calendars, and Climate Change, March 30th, 2017, Chalmers University, Goteborg, Sweden.

Building Anticipatory Capacity for Climate Change: Ecological Calendars, Press Panel, American Geophysical Union – Fall Meeting, December 14th, 2016, San Francisco, California.

Why Difference Matters? Opening Remarks, Planning Study Abroad Programs to Maximize Learning and Inclusion, Center for Teaching Excellence, September 30th, 2016, Ithaca, New York.

Chaired Panel on Indigenous Movements, An International and Interdisciplinary Conference on *Development In Question*, The 5th annual conference of the Development Sociology Section of the ASA Organized by an International Steering Committee and hosted by the Department of Development Sociology at Cornell University, October 7th, 2016, Ithaca, New York.

Chaired Special Session: Next Steps for Achieving Food, Health, and Energy Sovereignty: A Collaborative Effort (Kassam Research Group at Cornell was the Session organizer and presenters), 15th Congress of the International Society of Ethnobiology, Makerere University, August 2nd, 2016, Kampala Uganda.

Co-Chaired Session on Future of Agrobiodiversity in Ethiopia, 15th Congress of the International Society of Ethnobiology, Makerere University, August 2nd, 2016, Kampala Uganda.

The Scholar in The Anthropocene, Research Seminar at Department of Environmental Science Kabale University, July 27th, 2016, Kabale, Uganda.

Mentor at International Society of Ethnobiology's 4th Pre-Congress Student Workshop For Emerging Ethnobiologists, July 26th-29th, 2016, Entusi, Lake Bunyoni, Uganda.

Building Anticipatory Capacity for Climate Change: Ecological Calendars, Research Seminar at Xinjiang Institute of Ecology & Geography, Chinese Academy of Sciences, July 1st, 2016, Urumqi, China.

Ecological Calendars, Rhythms of the Land, and Anticipating Climate Change, Research Seminar at Center for Mountain Ecosystem Studies, June 29th, 2016, Kunming, China

Advancing Theory and Practice in Action Research: Ways of Knowing, Research Seminar at Chalmers University of Technology, Department of Technology Management and Economics, May 11th, 2016, Gothenburg, Sweden.

Groundings in Action Research: The Role of *Phronesis* and Diversity, Research Seminar at Chalmers University of Technology, Department of Technology Management and Economics, May 10th, 2016, Gothenburg, Sweden.

Building Anticipatory Capacity for Climate Change and Indigenous Ecological Calendars: A Methodology of Hope? Advancing Dialogue and Practice in Indigenous Research Methods Conference, April 30th, 2016, Ithaca, New York.

Public Intellectuals: Speaking Truth to Power with Humility and Grace, ACSF Research Fellow Lunch Talk, February 5th, 2016, Ithaca, New York.

Evidence of Pluralism and Mutual Support in the Mountains of Afghanistan: Why Difference Matters, Embassy of Canada, January 6th, 2016, Kabul, Afghanistan.

Building Anticipatory Capacity for Climate Change, Embassy of Canada, January 5th, 2016, Kabul, Afghanistan.

Speaking Truth to Power: The Challenge for Young Development Professionals, South Asia Development Forum, September 9th, 2015, Ithaca, New York.

Panel Key note: Role of Indigenous Knowledge Systems in Anticipating Change: The Ecology of Time Conference on Our Common Future Under Climate Change, Session: Building Resilience to Climate and Weather Extremes, UNESCO, July 8th, 2015, Paris, France.

Anticipating Climate Change: A Transdisciplinary Challenge, Mountains as Sentinels Network Workshop on Transdisciplinary Approaches to Mountain Sustainability, June 30th, 2015, Serre Chevalier, France.

Building Anticipatory Capacity for Climate Change and Indigenous Ecological Calendars: A Methodology of Hope?, Indigenous Methodologies and The History of Art Conference, April 30th 2015, Africana Studies and Research Center, Cornell University, Ithaca, NY.

Rhythms of Land and the Ecology of Time: Anticipating Change, Institute for the Social Sciences Contested Global Landscapes Theme Project Affiliates Conference and Capstone Lecture, April 9th, 2015, Ithaca, New York.

Seeking Empirical Evidence of Food Sovereignty, Presentation for collaborative transdisciplinary research Topical Lunch of the Atkinson Center for a Sustainable Future, Cornell University, February 17th, 2015, Ithaca, New York.

How Do We Teach Students to Speak Truth to Power Thoughtfully and with Humility and Grace? Engendering a New Generation of Public Intellectuals, Engaged Cornell Speakers Series, Cornell Public Service Center, February 6th, 2015, Ithaca, New York.

Contribution of Science to Indigenous Ecological Knowledge for Climate Change Adaptation at the Village Level, Presentation for collaborative transdisciplinary research Topical Lunch of the Atkinson Center for a Sustainable Future, Cornell University, January 20th, 2015, Ithaca, New York.

Building Anticipatory Capacity for Climate Change at the Village, Thriving Earth Exchange, American Geophysical Union, December 18th, 2014, San Francisco, USA.

Why Build? The Role of the Earth and Environmental Science Major, Keynote Address at the CFD Workshop, University of Central Asia, July 31st, 2014, Naryn, Kyrgyz Republic.

How Can We Anticipate Climate Change in Mountain Communities? UCA Public Lecture, University of Central Asia, June 26th, 2014, Bishkek, Kyrgyz Republic.

Visioning Food, Health and Energy Sovereignty: Ways Forward for Research and Practice, Workshop of the 14th Congress of the International Society of Ethnobiology, June 4th, 2014, Bumthang, Bhutan (Kassam Research Group at Cornell was the Workshop organizer and presenters)

Wicked Problems, Diversity, and Interdisciplinarity: The Case of Building Anticipatory Capacity for Climate Change, Triple C Seminar, University of Calgary, March 13th, 2014, Calgary, Alberta, Canada.

Process and Method of Learning How: A Case Study of Climate Change in the Arctic, University of Calgary, March 11th, 2014, Calgary, Alberta, Canada.

Socio-Cultural and Environmental Change in the Pamir Mountains and the Role of Indigenous Knowledge, University of Calgary, March 6th, 2014, Calgary, Alberta, Canada.

Does Cain Have to Kill Abel? Challenging the Metanarratives of Conflict among Indigenous Peoples in Afghanistan, University of Calgary, February 12th, 2014, Calgary, Alberta, Canada.

Oil Sands Stewardship, Presentation at the Environmental Panel of the Energy and the Oil Sands: Aboriginal Perspective Conference sponsored by the Fort McKay First Nations, January 24th, 2014, Fort McMurray, Alberta, Canada (presenter and panel moderator).

An Opportunity to Contribute: Earth and Environmental Science Major, University of Alberta, January 17th, 2014, Edmonton, Alberta, Canada.

Pluralistic Indigenous Knowledge Systems in Sustaining Food Sovereignty, American Anthropological Association, November 23rd, 2013, Chicago, Illinois.

Building Anticipatory Capacity for Climate Change: An Interdisciplinary Challenge, South Asia Program Seminar Series, Cornell University, September 30th, 2013, Ithaca, New York.

The Challenge of Climate Change and the Role of Local Knowledge in Adaptation and Food Sovereignty, Cornell Biological Field Station, June 26th, 2013 Shackelton Research Station, Oneida Lake, New York.

The Rules of Hospitality, Akwe:kon students, Cornell University, March 28th, 2013, Ithaca, New York.

The Human Ecology of Climate Change: An Interdisciplinary Challenge of Indigenous Knowledge and Science, College of Natural Sciences, University of Addis Ababa, March 22nd, 2013, Addis Ababa, Ethiopia.

Socio-cultural and Environmental Change in the Pamir Mountains, Agriculture & Climate Change in Debark: Knowledge Exchange between Farmers, Scientists, and Local Government, March 20th, 2013, Debark Ethiopia.

Indigenous Knowledge, Climate Change and Anticipatory Capacity: An interdisciplinary Challenge, The Applied Biodiversity National Science Foundation – Integrative Graduate Education and Research Traineeship, Texas A&M University, February 12th, 2013, College Station, Texas.

Knowledge As Hope for the Challenges of the 21st Century, The Academy of Sciences of the Republic of Tajikistan, December 12th, 2012. Dushanbe, Tajikistan.

Nurturing Knowledge: Role of Medicinal Plants, Faculty Fellow Presentation, Akwe:kon, Cornell University, November 2nd, 2012. Ithaca, New York

What is the Relevance of Mazars (Sacred Sites) in the Twenty-First Century, University of Central Asia, Ismaili Center, July 29th, 2012. Dushanbe, Tajikistan.

Living Knowledge: Medicinal Plants in the Pamir Mountains, National Library of Tajikistan, Organized by the Embassy of the United States of America, July 19th, 2012. Dushanbe, Tajikistan.

Critical Gender Role of Women under Conditions of Chronic Sociocultural and Ecological Stress – Women Sustainable Development and Food sovereignty in a Changing world, Cornell University Law School, March 30th, 2012. Ithaca, New York.

To Whom Much is Given, Much is Expected – Presentation to Undergraduate Students in Office of Academic Diversity Initiatives (OADI), Cornell University, March 27th, 2012. Ithaca, New York.

The Spirit of Conservation and the Idolatry of Management – Developing Ecologically-based Conservation Targets Under Global Change, The Second Emerging Issues Conference of the Ecological Society of America, February 28th, 2012. National Conservation Training Center Shepherdstown, West Virginia.

Challenging Metanarratives of Conflict: Pluralism and the Ecology of Survival in the Pamir Mountains of Afghanistan – South Asia Center Seminar, Syracuse University, February 15th, 2012. Syracuse, New York.

Engendering a New Generation of Public Intellectuals: Speaking Truth to Power – Department of Natural Resources Graduate Student Symposium: Does Interdisciplinarity Matter? Cornell University, January 19th, 2012. Ithaca, New York.

Does Cain Have to Kill Able? Metanarratives of Conflict and Pluralism Among Indigenous Peoples – ProSeminar American Indian Studies, Cornell University, November 30th, 2011. Ithaca, New York.

Engendering Public Intellectuals through Applied Research and Teaching Pedagogy – The Transformation of Public Intellectuals and Canadian Democracy Workshop sponsored by the Social Sciences and Humanities Research Council (SSHRC) of Canada, University of Calgary, October 5th, 2011. Calgary, Alberta.

Knowledge as Sovereignty – Seminar to the Aga Khan Humanities Project, University of Central Asia, September 28th, 2011. Dushanbe, Tajikistan.

Socio-Cultural and Ecological Impacts of Climate Change in Mountain Societies – Public Seminar to the Organization for Security and Cooperation in Europe, September 27th, 2011. Dushanbe, Tajikistan.

The Role of Medicinal Plants in Food and Health Sovereignty: Findings from the Tajik and Afghan Pamirs – Seminar Presentation to the Academy of Sciences of the Republic of Tajikistan, September 26th, 2011. Dushanbe, Tajikistan.

Food Sovereignty: Potential for GornoBadakhshan Autonomous Oblast (GBAO) – Policy input presentation and meeting organized by the Governor of GBAO to develop a five year research

plan for the Kassam research group at Cornell University with participation from civil society, conservation, and academic institutions in the Pamir Mountains, September 19th, 2011. Khorog, Tajikistan.

The Human Ecology of Watersheds: People's Knowledge and Participation in Management – Moderator and Seminar Presenter, International Sustainable Watersheds Workshop (Beijing Normal University), August 3rd, 2011. Beijing, China.

Water in South Asia: Challenges in a Changing Environment Symposium – South Asia Program (Cornell University), April 8, 2011. Moderator and Discussant – Climate Change and Water. Ithaca, New York.

Department of Natural Resources (Cornell University), March 1, 2011. Seminar Presentation – Why Intellectual Pluralism? The Case of the Ecology of Time. Ithaca, New York.

Middle East Studies Association, November 20, 2010. Panel Presentation – Ecology of Time: The Calendar of the Human Body in the Pamir Mountains. San Diego, California.

Reppy Institute for Peace Studies (Cornell University), November 18, 2010. Seminar Presentation – Pluralism and the Ecology of Survival: Cases from the Pamir Mountains of Afghanistan. Ithaca, New York.

International Agriculture and Rural Development (Cornell University), October 13, 2010. Seminar Presentation – Indigenous Knowledge of Medicinal Plant Use and Health Sovereignty: Findings from the Tajik and Afghan Pamirs. Ithaca, New York.

University of Central Asia, Learning Event, July 20, 2010. Seminar Presentation – How Can a Dynamic Concept of Pluralism Inform Adaptation and Survival Under Conditions of Dramatic Socio-cultural and Environmental change? Khorog, Tajikistan.

Pluralism in Crisis Workshop (Cornell University, Cambridge University and University of Glasgow), 24-25 May, 23-24 June, and 27-29 July, 2010. Co-chair and Presenter – Institute of Advanced Studies, Glasgow, Scotland.

International Congress of Ethnobiology, May 14, 2010. Panel Presentation – Indigenous Knowledge of Medicinal Plant Use - Indicator of Health and Food Security: Preliminary Findings from the Tajik and Afghan Pamirs. Tofino, British Columbia.

Open Society Institute, Spring Conference, March 8, 2010. Panel Presentation – Being Relevant: Role of Young Scholars in the Former Soviet Republics. New York, New York.

Open Society Institute, Spring Conference, March 8, 2010. Keynote Address – What are the Applied Research Issues in the Pamir Mountains of Central Asia? New York, New York.

South Asia Program (Cornell University), February 15, 2010. Seminar Presentation – Socio-cultural and Ecological Change in the Pamir Mountains of Afghanistan and Tajikistan. Ithaca, New York.

Initiative for Climate Adaptation Research and Understanding through the Social Sciences (ICARUS) Workshop on Climate Vulnerability and Adaptation: Theory and Cases Workshop (The Beckman Institute, University of Illinois), February 11, 2010. Panel Presentation – Human Ecology of Vulnerability and Adaptation: Case Studies of Climate Change from High Latitudes and Altitudes. Urbana, Illinois.

Biodiversity Conservation and Poverty Traps Workshop (Cornell University), February 4, 2010. Panel Presentation – Poverty Traps and Biocultural Diversity in Central Asia: Cases From the Roof of the World. Ithaca, New York.

Climate-Glaciers-Society Conference, Lamont-Doherty Earth Observatory, Columbia University, November 12, 2009. Keynote Address – Viewing Socio-cultural and Environmental Change Through the Prism of Indigenous Human Ecology. New York, New York.

International Workshop in Conservation and Sustainable Development (Beijing Normal University), May 27, 2009. Panel Presentation – Resilience and Adaptation of Human Ecological Systems in Times of Dramatic Change. Beijing, China.

Beyond Diversity: Re-situating Pluralism Workshop (Cornell University), May 19-21, 2009. Chair – What can we learn from the biological, physical, and social sciences as well as humanities in reframing and understanding pluralism in the context of dramatic socio-cultural and environmental change? Shackleton Point Research Station, New York.

Association of American Geographers, March 24, 2009. Panel Presentation – Resilience, Pluralism, and Practical Wisdom in the Pamir: Interplay of the Ecological and Cultural. Las Vegas, Nevada.

All-Ivy Native Council Summit, Cornell University, November 15, 2008. Keynote speaker – 21st Century Changes and Challenges: Opportunities for Native Students to Contribute. Ithaca, New York.

Conversations on the Land: Indigenous and Scientific Principles for Sustainable Communities, College of Environmental Science and Forestry, State University of New York, November 7, 2008. Keynote speaker – Pluralism in Ways of Knowing: A Strategy for Survival. Syracuse, New York.

Symposium on Wildlife Conservation at Cornell: From A to Z (the Arctic to Zambia), October 17, 2008. Presentation – Conservation as if Nature and Culture Matter. Ithaca, New York.

University of Central Asia, Learning Event, July 21, 2008. Seminar Presentation – Resilience and Food Security: Research Findings. Khorog, Tajikistan.

University of Central Asia, Learning Event, July 18, 2008. Seminar Presentation – Diversity - Where Nature and Culture Matter: Indigenous Knowledge and Bio-Cultural Diversity. Khorog, Tajikistan.

University of Central Asia, Learning Event, July 10, 2008. Seminar Presentation – Community Service Learning: The Link Between Freedom and Responsibility. Khorog, Tajikistan.

Akwe:kon: Spring Planting Festival, Cornell University, May 4, 2008. Keynote speaker – Biophillic and Spring. Ithaca, New York.

Association of American Geographers, April 16, 2008. Panel Presentation – Understanding Change Through Indigenous Knowledge: Findings from the Afghan and Tajik Pamir. Tucson, Arizona.

College of Environmental Science and Forestry, State University of New York, March 3, 2008. Seminar Presentation – Biocultural Diversity, Natural Resources, and Indigenous Peoples. Syracuse, New York.

Department of Natural Resources, February 26, 2008. Seminar Presentation – How do we know what we know? A collaborative response from a biological and social scientist (with Patrick Sullivan). Ithaca, New York.

Akwe:kon: Visiting Scholar Seminar of the Native American Students Association, Cornell University, November 20, 2007. Keynote speaker – The Role of the Student as a Scholar Citizen. Ithaca, New York.

Cornell Institute for Food Agriculture and Development Seminar: Agroecological Perspectives for Sustainable Development, November 14, 2007. Seminar Presentation – Knowledge and Change: Biocultural Diversity in the Pamir. Ithaca, New York.

American Indian Program (AIP) Colloquium, Cornell University, October 31, 2007. Seminar Presentation – Conservation as if Nature and Culture Matter: Indigenous Knowledge and Bio-Cultural Diversity. Ithaca, New York.

Department of Natural Resources Strategic Planning Seminar Panel, Cornell University, October 2, 2007. Panel Presentation – 3 Trends Affecting Applied Scholarship in Natural Resources. Ithaca, New York.

University of Central Asia, Learning Event, September 11, 2007. Seminar Presentation – Being Relevant: Possibilities for A University in the Pamir. Khorog, Tajikistan.

German Agency for Technical Cooperation (GTZ) Workshop on Best Practices and Sustainable Land and Resource Management, August 29, 2007. Plenary Presentation – Change and Human Ecology in the Pamir. Khorog, Tajikistan.

Special Seminar, International Management of Resources and Environment Program, Freiberg University, December 7, 2006. Seminar Presentation – Interdisciplinarity, Indigenous Knowledge, and Biocultural Diversity. Freiberg, Germany.

Special Seminar, International Management of Resources and Environment Program, Freiberg University, December 8, 2006. Seminar Presentation – Biocultural Diversity in the Pamir. Freiberg, Germany.

The Nature Conservancy Science in Practice Conference, November 30, 2006. Keynote Speaker – Conservation As If Nature and Culture Matter. Tucson, Arizona.

Special Seminar sponsored by the Academy of Sciences of the Republic of Tajikistan, Physics Institute, September 4, 2006. Keynote Speaker – Indigenous Knowledge and Climate Change: Opportunities for Scientists to Contribute. Dushanbe, Tajikistan.

University of Central Asia, Learning Event, September 1, 2006. Preliminary Research Findings: Bio-Cultural Diversity in Badakhshan Afghanistan and Tajikistan. Seminar sponsored by the University of Central Asia in Khorog, Tajikistan.

The Centre for Biodiversity and Indigenous Knowledge (CBIK) and The Nature Conservancy, June 14, 2004. Keynote Speaker – A Human Ecology Approach to Alpine Lands of Northwest Yunnan. Kunming, China.

Department of Natural Resources Seminar, October 29, 2003. Seminar Presentation – The Weather is Going Under. Ithaca, New York.

Department of Natural Resources, February 20, 2003. Seminar Presentation – Mapping Indigenous Human Ecology: Experiences and Outcomes in the Arctic and Sub-Arctic. Ithaca, New York.

Department of Natural Resources, Cornell University, February 19, 2003. Seminar Presentation – Canada and September 11th. Ithaca, New York.

Faculté Saint-Jean, University of Alberta, August 28, 2002. Seminar Presentation – Globalization, Natural Resources and the North: Community Based Research. Edmonton, Alberta.

World University Services Canada Symposium on Indigenous Perspectives for a Sustainable Future, February 9, 2002. Keynote Presentation – Indigenous Communities: Opportunities for Youth to Contribute. Calgary, Alberta. International Week, University of Calgary, February 7, 2002. Panel Presentation – Aftermath and Consequences of September 11th. Calgary, Alberta

Conference of the Chinese Academy of Social Sciences and the United Nations, December 4 - 6, 2001. Plenary Presenter – Natural and Cultural Heritage (500 Chinese participants from government, cultural, and academic institutions). Beijing, China.

Workshop of American Professors of Canadian Studies, University of Calgary, July 12, 2001. Seminar Presentation – Canada in a Circumpolar Context. Calgary, Alberta.

Inuit Artists Symposium, University of Calgary, July 11, 2001. Keynote Speaker – Human Ecology Research and Art in the Circumpolar Arctic. Indigenous artists from Cape Dorset. Calgary, Alberta.

India's Development Challenges: Recent Research Findings and Their Implications. Keynote Presentations – The Empowerment of Women: The Role of Indigenous Women in Forestry Development New Delhi, India, April 23 - 26, 2001, and Ottawa, Canada, May 29 - 31, 2001. More than 500 scholars, NGO representatives and government policy makers in Canada and India attended the conference.

Ties That Bind, International Week, University of Calgary, February 9, 2001. Keynote Presentation – Opportunities to Make a Meaningful Contribution in Circumpolar Communities: The Case of the Sami in Russia. Calgary, Alberta.

Religious Studies Group at Saint Mary's College, November 10, 1999. Seminar Presentation – The Universal and the Particular: A Case for Pluralism. Calgary, Alberta.

Barrow Arctic Science Consortium, March 18, 1999. Seminar Presentation – Sami Reindeer Herders and Perestroika in Russia's Far North. Barrow, Alaska.

Anthropology Colloquium, University of Alaska, March 12, 1999. Seminar Presentation – A Case Study in Participatory Research: The Sami of Russia. Fairbanks, Alaska.

Conference on Community Development from the Inside Out, August 21, 1998. Panel Presentation – Community Participation, Traditional Knowledge and Co-management: The Russian Sami Experience. Calgary, Alberta.

Community and Public Scholarship

Khurshid Television Network (Afghanistan's most popular TV network), June 24, 2018. The Greater *Jihad* is Climate Change.

ZAN TV (Women's television network), June 24, 2018. Impact of climate Change on Women and Livelihoods.

Salam Watander (Afghanistan's most popular radio station) June 24, 2018. Climate Change and Peaceful Resolution of Conflict.

Khurshid Television Network, January 6, 2016. Seminars at the Canadian Embassy in Kabul, Afghanistan.

Radio interview on The Made of Clay Report with Eric Clay, WRFI, Watkins Glen, Ithaca, March 8, 2015 (60 minutes; <http://madeofclay.org/2015-2/>).

Badakhshan Television, July 21, 2010. The Role of Pluralism in Addressing Climate Change. Interview with Faizmir Hassan (36 Minutes).

POMIR Newspaper, July 21, 2010. Experiences of Research in Badakhshan. Newspaper Interview with Alisher Junaidi.

Radio Free Europe-OZODI (Tajikistan), July 14, 2010. Impacts of Climate Change in the Pamirs. Interview with Tohir Safarov (<http://www.ozodi.org/articleprintview/2099254.html>).

American Corner (of the Embassy of USA), July 13, 2010. Seminar Presentation – Applied Research in The Pamirs of Tajikistan and Afghanistan. Khorog, Tajikistan.

OMNI Television News, May 21, 2010. Understanding Terror and Canada’s Commitment in Afghanistan. Interview with Lisha Hassanali. Calgary, Alberta.

Public Book Reading hosted by the Institute for Peace Studies and the University of Calgary Press, May 19, 2010. Understanding Terror: Perspective for Canadians. Escalus Room, MacEwan Hall, University of Calgary Campus.

CTV News at Noon, May 19, 2010. Understanding Terror and Canada’s Commitment in Afghanistan. Interview with Reg Hampton Calgary, Alberta.

Canadian Senate’s Security Committee May 9, 2007 and the Conference of Defence Associations Institute (CDAI) May 10, 2007. Keynote Presentation – What is Canada’s Role in Afghanistan? The Perspective from Applied Research. Ottawa, Canada.

Feature interview in *Alberta Oil Magazine*, September 2006, vol. 2 (3) pages 58-63. Dinner and a Movie - Three climate-change experts digest Al Gore’s *An Inconvenient Truth*.

Essay in the *Calgary Herald*, August 15, 2006 – Climate change adds to hardship in Bartang valley, page A13 (1600 words).

Sunday Feature Essay in the *Calgary Herald*, August 6, 2006. A ‘Stan whose people, culture remarkably similar to ours, page A10 (850 words).

Shell Canada engineers and other employees at the Shell the Oil refinery and Upgrader, February 26, 2006. Keynote Speaker – Understanding Bio-Cultural Diversity in Fort Saskatchewan, Alberta.

Essay in the *Calgary Herald*, February 17, 2006. Press freedom can also be freedom to abuse, page A29 (850 words).

Spring Workshop of the Freemasons of Alberta, April 30 - May 1, 2004. Keynote Speaker – Three presentations: (1) Tolerance: Towards a Pluralistic Society, (2) Building a Pluralistic Society, and (3) Where Do We Go From Here?. Delta Lodge, Kananaskis, Alberta.

Wild Rose United Church, January 12, 2003. Sermon on the Theme of Spiritual Journeys – In Search of the Light. Calgary, Alberta.

Parliament and Senate, Room 200 West Block, June 9, 2002. Keynote Speaker – To Whom Much Is Given Much Is Expected: Pluralism from the Perspective of a Canadian Muslim. Ottawa, Ontario.

Pleasant Heights United Church, February 10, 2002. Sermon – the Abrahamic Tradition. Calgary, Alberta.

Interview in *Canadian Living Magazine*, December 2002. On forgiveness. Interviewed by Leslie Gavel. Calgary, Alberta.

Radio, television and newspaper interviews on the book *Canada and September 11th: Impact and Response*.

- “A” Channel Big Breakfast Show interviewed by Jeb Fink, September 11, 2002
- CFCN Television, Lunch Show interviewed by Sarika Segal (with George Melnyk), September 11, 2002
- Shaw Cable Television interviewed by David Will, Community News, September 13, 2002
- “A” Channel Television 6 O’clock News interviewed by Krista Platzer, August 30, 2002
- CBC Regional News interviewed by Allison Mayers, September 9, 2002

- CHQR Radio interviewed by David Rutherford, September 9, 2002
- Radio Canada TV (French Television CBC) interviewed by François Tremblay, September 5, 2002
- CBC Calgary Eyeopener interviewed by Jeff Collins (with Lynne Perras), August 29, 2002
- CBC National Radio One and Radio Two (with Lynne Perras), August 27, 2002
- Edmonton Journal, August 27, 2002 page B3
- Calgary Herald, August 28, 2002, page B6
- Calgary Sun, August 28, 2002, page 18
- University Gazette, September 3, 2002, page 7

Understanding Islam: A Consequence of September 11th, 2001 (Each presentation was made at the invitation of the organization and geared to the specific audience while certain common themes were covered)

- September 22, 2001, Explaining to grade 9 and 10 multi-ethnic Muslim students about the events of September 11 and responding to questions (200 students)
- September 22, 2001, Explaining to grade 11 and 12 multi-ethnic Muslim students about the events of September 11 and responding to questions (168 students)
- October 5, 2001, Ismaili Muslim Jamat Khana and Centre, Calgary (285 individuals)
- October 11, 2001, Elbow Drive Lutheran Church (16 individuals)
- October 13, 2001, South Jamat Khana (150 individuals)
- October 24, 2001, Society for Alternative Dispute Resolution (15 individuals)
- October 29, 2001, Deer Park United Church (40 individuals)
- November 5, 2001, United Church in the Town of Red Deer (119 individuals)
- November 9, 2001, Keeler Elementary School – Teachers Professional Development Day (30 individuals)
- November 17, 2001, Fort Edmonton, Freemasons Hall, Edmonton (69 individuals)
- November 21, 2001, Christ Church (Anglican) (78 individuals)
- November 23, 2001, Pleasant Heights United Church (14 individuals)
- November 25, 2001, Ascension Lutheran Church (9 individuals)
- November 25, 2001, Dialogue session Ismaili Muslim Jamat Khana and Centre, Calgary (500 individuals)
- December 17, 2001, Shell Canada Head Office, Calgary, Alberta – Employees (110 individuals)

Ismaili Jamat, November 21, 1999. Keynote Speaker – An Invitation to Build a Civilization: The Metaphor of the Fatimid Civilization. Toronto, Canada.

Inter-Faith Calgary, October 20, 1999. Keynote Speaker – An Ethical Framework for Building Communities. Calgary, Alberta.

O’Byrne Institute, April 16, 1998. Keynote Speaker – On Giving Advice on Development?! Calgary, Alberta.

The Canadian Club of Calgary, March 19th, 1998. Keynote Speaker – Globalization and Education: A University Model in the Developing World. Calgary, Alberta.

Radio interview on the Women’s Empowerment Project with Judy Aldous, CBC North, Yellowknife, June 17, 1999 (15 minutes).

Radio interview on Why is the Arctic important to the overall health of the earth? with Ken Vanlith, CFOS, Ontario, April 15, 1999 (15 minutes).

Radio interview on the Human Ecology Project and the Role of Indigenous Communities with Earl Finkler, KBRW, Barrow, Alaska, March 24, 1999 (20 minutes).

Radio interview on the Russian Sami with Earl Finkler, KBRW, Barrow, Alaska, March 16, 1999 (10 minutes).

Radio interview on current conditions in the Russian Arctic for Indigenous Communities with John McWhorter (News Director), KUAC, Fairbanks, Alaska, March 11, 1999 (20 minutes).