

November 18-20, 2009



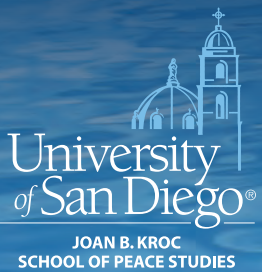
GREENING BORDERS

COOPERATION, SECURITY AND DIPLOMACY

Environmental Conflict Resolution Conference

A working conference bringing global insights to controversies related to water justice and hydro-diplomacy in San Diego –Tijuana border region.

CONVENED BY



Joan B. Kroc School of Peace Studies

University of San Diego

5998 Alcalá Park, San Diego, CA 92110-2492

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Acknowledgements

Greening Borders would not have been possible without the dedication and countless efforts of the conference committee: **Karla Alvarez**, Joan B. Kroc Institute for Peace & Justice, **Michel Boudrias**, College of Arts & Sciences, **Ami Carpenter**, **Ilze Dzenovska**, **William Headley**, **Lee Ann Otto**, Joan B. Kroc School of Peace Studies, **Charles W. Pope**, Trans-Border Institute, **Nilmini Silva-Send**, Energy Policy Initiatives Center, School of Law.

We sincerely thank our fellow staff and university colleagues, work study students, and volunteers who provided their time, energy and creativity in crafting this conference:

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The *Greening Borders*’ team especially appreciates the collaborative effort that has been demonstrated by individuals and institutions across all sectors of this border region community. We wish to acknowledge individuals and their respective organizations for decades of endless work, striving towards sustainable solutions for managing the Tijuana River Watershed.

Anna Hoff	Karen JM Frantz	Arcela Nunez-Alvarez	Hiram Sarabia-Ramire
Saleem Ali	John Gabaldon	Luis Olmedo Velez	Elsa Saxod
Jo Brooks	Paul Ganster	Jim Peugh	Paula Stigler
Jane Clough-Riquelme	Louis Guassac	Keith Pezzoli	Richard Tynan
Michael Connolly Miskwish	Kelly Keniston	Halla Razak	Rick van Schoik
Joseph Dacong	Ben McCue	John Robertus	Doretta Winkelman
Margarita Diaz	Sarah Miles	Juan Manuel Rodríguez	
Ana Eguiarte	Dan Murphy	Esteves	
John Fanestil	Steve Newcomb	Oscar Romo	

Our deepest gratitude to the invaluable support of our *speakers, facilitators* and *moderators* who donated their time and work for this collaborative effort.

Conference Supporters and Collaborators



UNESCO’S International Hydrological Programme – PCCP

El Colegio de la Frontera Norte (COLEF)

National Latino Research Center at

California State University, San Marcos

San Diego State University

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TABLE OF CONTENTS

Welcome by Dean Headley,
Joan B. Kroc School of Peace Studies Page 2

Welcome by Oscar Romo,
Tijuana River National Estuarine Research Reserve Page 3

Conference Rationale and Welcome by Conference Co-Chairs
Ami Carpenter and Michel Boudrias Page 4

Conference Agenda Page 6

Speaker, Moderator, Facilitator and Organizer Biographies..... Page 12

Dear elected and administrative officials, delegates and partners, and conference participants:

I am delighted to welcome you to *Greening Borders – Cooperation, Security and Diplomacy*, A binational U.S. – Mexico working conference, convened by the Joan B. Kroc School of Peace Studies at the University of San Diego (USD). The school is a nexus of dialogue and action – drawing together practitioners and academics, religious and lay, Americans and internationals, professionals and volunteers – to address the root causes of conflict around the world. The school includes a graduate Master of Arts in Peace and Justice Studies program, and two institutes who work on the ground, in the field, and present best practices through ground-breaking conferences, lectures and publications.

The Joan B. Kroc Institute for Peace & Justice (IPJ) is dedicated to *fostering peace, cultivating justice and creating a safer world*. The IPJ advances the understanding and practice of conflict resolution and human rights through research, education and international peacebuilding programs in places such as Nepal, West Africa and Guatemala. The Women PeaceMakers Program, the WorldLink program connecting youth to global affairs, the Joan B. Kroc Distinguished Lecture Series and other events provide the USD, local and international communities with new approaches and best practices in a wide range of peace and justice areas.

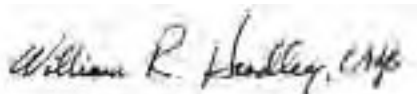
The Trans-Border Institute (TBI) is one of the leading centers in the country focused on U.S.-Mexico border issues. The TBI works in areas of security and rule of law, economic development and cross-border collaboration. The Justice in Mexico Project provides analysis and policy recommendations on problems of crime and violence, justice sector reforms and access to justice in Mexico. Through border-related scholarship, activities and an active role for the university in the cross-border community, the TBI *promotes a more prosperous and harmonious U.S.-Mexico relationship*.

Central to the School of Peace Studies is the concept of peace as human development. As defined by the United Nations: “human development is a process of enlarging people’s choices to live a long and healthy life, to acquire knowledge, to have resources needed for a decent standard of living, while preserving it for future generations, ensuring human security and achieving it.”

The Joan B. Kroc School of Peace Studies is committed to promoting human development and conflict resolution. We take seriously current environmental crises and resource disasters resulting from population growth, climate change, technology, economic globalization, and destruction of habitat. We believe this means putting “good governance” at the heart of environmental and natural resources policy-making, and bringing together the numerous interest groups (public interests, tribal interests, environmental advocates, community residents, business and industry, concerned residents) from both sides of the border to discuss contentious issues, and do some joint problem-solving.

This is our vision for the *Greening Borders* Conference, and we thank you for adding your voice and expertise to this important conversation.

Peace be with you,



William R. Headley C.S.Sp., Ph.D.

Dean

Joan B. Kroc School of Peace Studies

Welcome,

The borderlands between the United States and Mexico have taken increased significance in post World War II U.S.-Mexican relations; in the traditional bilateral agenda, the issues of migration, drug trafficking and trade were dominant, but within the last two decades the environment has become a topic of relevance. With the implementation of the North American Free Trade Agreement (NAFTA), a population explosion and economic activity result in serious degradation in the natural systems, forcing the creation of an agenda of environmental diplomacy, specifically designed for the U.S.-Mexico border.

A great example of the discussion surrounding the border region is shared environment is the Tijuana River Valley, a narrow band of habitat between the ocean and an increased urbanized coastal plain. Shaped by geologic movements, the tides of the Pacific Ocean, and the built environment of the San Diego and Tijuana sister cities, the valley as well as the greater Tijuana River Watershed offers a microcosm of the global environment and an opportunity to engage in the experimentation of a conceptual framework to comprehend the complexities of the international environment.

A growing consensus to find durable solutions to decades of waste streams of sewage, sediment and trash flows originating in Tijuana, which flow across the international border into the United States and through the Tijuana River out to the Pacific Ocean, has created agreements, studies and negotiated responses, but these efforts are being undermined by the complexities and textures of jurisdictional obstacles imposed by the boundary.

In addition, a series of individual decisions, institutional culture, lack of trust and the existence of political clusters assuming a “simple picture” attitude of the situation, serve as a significant barrier to cooperation, limiting the horizontal communication among regional agencies, and a vertical interaction with state and federal institutions.

In this regard, *Greening Borders* offers an opportunity to explore contemporary views of cross-border integration for resource and water management, using conflict resolution techniques, sustainable development approaches, and acknowledging the value of local institutional and political culture.

Greening Borders will also examine the function of political boundaries over a range of time, space and scale to help understand the processes of global integration of the environment aided by the porous nature of political boundaries, territorial sovereignty and national interest of resources.

As organizers of this event, we are prepared and committed to share and deliver your recommendations to local, regional and national decision makers, and to continue supporting hydro-diplomacy and trans-boundary solutions to maintain the water security in the San Diego/Tijuana region.

Oscar Romo
Watershed Coordinator
Tijuana River National Estuarine Research Reserve

Welcome Delegates,

Water management is a human, national and environmental security issue, and in border regions it requires a binational approach. Contaminated watersheds, raw sewage runoff and polluted rainwater do not respect political borders. Trans-border governance structures are emerging globally to improve environmental and transboundary water management among nations and to reduce potential conflicts.

Water issues will soon rival the current worldwide discussions revolving around oil, merging human, environmental and national security concerns. In border regions, contaminated watersheds and polluted run-off are transboundary challenges highlighting the need for decision-making processes that go beyond the borders of individual nation-states. Regional administrative structures that nurture ecologically sustainable and socially responsible development and provide effective channels for cooperation and collaboration between national governments, regional institutions, tribal communities and other stakeholders exist in many border regions the world over. These include successful hydro-diplomacy in India, Bangladesh, Nepal, Israel, Palestine and Jordan, and U.S.-Canada. These structures take any number of forms, from Peace Parks in South Africa and at the U.S.-Canadian border to the Meso-American Biological Corridor in Latin America.

What lessons exist for managing our own trans-border environment? Water problems on the U.S.-Mexico border region of San Diego and Tijuana are clear. Urban streams on both sides of the border continue to have high concentrations of contaminants which often flow to wetlands and beaches in San Diego. Pollution poses immediate risks, in the form of raw sewage and polluted streams that flow across the international border, and residents living along the U.S.-Mexico border continue to experience high incidences of tuberculosis, hepatitis and intestinal infections. The impact on ecosystems is no less severe and may have long-term negative consequences. Individual states and the international community need new ways of managing trans-border environments that generate cooperation and prevent conflicts. The community of stakeholders involved in regional environmental governance at the U.S.-Mexico border is large including:

- The security sector, because trans-boundary environmental problems threaten human security and undermine state sovereignty if natural resources are poorly managed.
- Elected officials (United States, Mexico and Tribal) because they possess the jurisdictional, political and institutional resources needed to address regional, trans-border water issues, and particularly state and local officials because those living closest to the real effects of polluted water have greater incentives to firmly and consistently support environmental improvement and mindful management.
- Civil society, because they have proven experience and success in fundraising for diverse projects, play important roles of monitoring compliance and advocating for social justice, and are effective program designers and agents of implementation.
- The private sector, because businesses value the long-term security of investments and have a stake in examining and responding to the environmental threats.

According to the United Nations Environmental Program, collaboration between the private and civic sectors with law-making bodies drives dynamic change from the bottom up and top down through education, science and innovation creating new norms. Yet they find that lack of communication and cooperation between these bodies leads to poor administrative capacity and actual implementation potential. The Tijuana watershed is shared by two countries, two states, indigenous peoples, civic organizations, local governments and private land owners. Different jurisdictions and mandates normally promote competing interests in trans-border water management.

However, a unique challenge of the Southern U.S. Border, not shared by the Northern Border with Canada, is the juxtaposition of a developed and developing country. The Southern U.S.-Mexico border region experiences an underlying conflict that is based on (1) the unequal development of Tijuana and San Diego and (2) the conflict of

interest in promoting economic development in Mexico while at the same time protecting people and resources in the border area from the ecological consequences of downstream pollution. Disputes over water quality are nested within the relationship between San Diego and Tijuana as separate cities in sovereign nations, and individual problem-solvers as separate national and tribal peoples.

Greening Borders supports hydro-diplomacy and trans-border solutions to water security by discussing emerging trans-border water management approaches from around the world, and applying cutting-edge thinking to water security in our own region.

The conference is built on the following principles from the field of environmental conflict resolution:

- Face-to-face discussions
- Deliberation intended to enhance participants' mutual education and understanding
- Inclusion of multiple sectors representing diverse and often conflicting perspectives
- Openness and flexibility of process
- Consensus or some variation other than unilateral decision-making as the basis for agreements
- An environmental element, meaning the interconnected environmental, economic, political and social systems encompassing both natural and human systems.

To actively address communication and cooperation between such diverse communities of environmental stakeholders, interactive working sessions follow each panel for conflict analysis, consensus-building and building the political will to build on emerging transboundary water management schemes in our own region. In our final session, a regional vision will be articulated.

While that vision can only be defined by participants, it might be expected to include a focus on sustained cooperation, collaboration and communication across regimes, regions and stakeholders.



Ami C. Carpenter, Ph.D., Conference Co-Chair
Joan B. Kroc School of Peace Studies
University of San Diego



Michel Boudrias, Ph.D., Conference Co-Chair
Marine Science & Environmental Studies Dep.
University of San Diego



IPJ Reflection Pool

Conference Agenda**Greening Borders: Cooperation, Security and Diplomacy***November 18- 20, 2009*

Joan B. Kroc School of Peace Studies, University of San Diego, California, USA

Wednesday, November 18

1 – 2:30 p.m.	Luncheon Meeting for Speakers and Facilitators (Invitation only)	Casa de la Paz
2:30 – 3 p.m.	Technology and Audiovisual Assistance (For speakers, facilitators and moderators)	Resource Room
2 – 3:30 p.m.	Delegate Registration (Late registration until 9 p.m.)	IPJ Rotunda

2 – 3:30 p.m. *Shuttle om Holiday Inn Express, Old Town to IPJ*

3:30 – 4 p.m. **Conference Welcome (Open to public)** **Peace & Justice Theatre**

William R. Headley, C.S.Sp., Ph.D., Dean of the Joan B. Kroc School of Peace Studies

Ami Carpenter, Ph.D., Conference Co-chair, Assistant Professor at the Joan B. Kroc School of Peace Studies

Oscar Romo, Ph.D., Watershed Coordinator, Tijuana River National Estuarine Research Reserve

Michel Boudrias, Ph.D., Conference Co-chair, Chair of the Marine Science and Environmental Studies Department and Academic Director of the Sustainability Initiative at the University of San Diego

4 – 5:30 p.m. **Panel One (Open to public)** **Peace & Justice Theatre**

“Water, Climate and Conflict Resolution: the Future of Environmental Security”

Panelists will connect global perspectives on water security, climate change and conflict resolution, with regional and local dilemmas. Specifically, this panel highlights the ecological interdependence in the San Diego-Tijuana region around water and climate change, and explains the rationale and benefits of a regional approach to managing risk. Panelists will address general risks to human and national security of climate change and environmental degradation around the world, and explore specific risks and future projections of negative impact – in the San Diego-Tijuana region, particularly emphasizing water. Approaches to trans-border governance will be introduced.

Exequiel Ezcurra, Ph.D., Director and Professor of Plant Ecology UC- Mexus, University of California, Riverside

“Key Elements for a Sustainable, Conservationist Approach to Water Management at the San Diego-Tijuana Border”

Daniel R. Cayan, Ph.D., Research Meteorologist, Scripps Institution of Oceanography, University of California, San Diego

“A Warmer, Drier Future – Prospects of Climate Change”

Serge Dedina, Ph.D., Executive Director/ Director Ejecutivo, WiLDCOAST/COSTASALVAJE

“Playa Azul: A New Vision for Ecosystem Restoration, Wildlife Conservation and Community Health in the San Diego-Tijuana Border Region”

Todd Jarvis, Ph.D., Associate Director, Institute for Water and Watersheds, Oregon State University

“The Dilemma of Boundaries: Looking Beyond the Basin for Benefits and Identity”

Moderated by Michel Boudrias, Ph.D., Chair of the Marine Science and Environmental Studies Department and Academic Director of the Sustainability Initiative at the University of San Diego

5:30 – 6:30 p.m. Coffee and Networking **Resource Room**
Tours of IPJ

7 – 8:30 p.m. Keynote address (Open to public) **Peace & Justice Theatre**

“From the Boardroom to the Border: Negotiating for Sustainable Agreements”

*William Ury, Ph.D., Co-founder and senior fellow of the Harvard Negotiation Project and co-author of *Getting to Yes: Negotiating Agreement Without Giving In**

Presented by Joan B. Kroc Distinguished Lecture Series

8:30 – 9:30 p.m. Public Reception **IPJ Rotunda**

8:30 – 9:30 p.m. Shuttle from IPJ to Holiday Inn Express and Courtyard Marriott, Old Town

Thursday, November 19

7:45 – 8:45 a.m. Shuttle from Holiday Inn Express, Old Town to IPJ

8 – 8:45 a.m. Continental Breakfast **IPJ Rotunda**

8:45 – 10:45 a.m. Working Session I (For delegates with full conference registration) **Peace & Justice Theatre**

“The Water Message Game: Water and Conflict Prevention”

Lead facilitator *Léna Salamé, Program Specialist, From Potential Conflict to Co-operation Potential, UNESCO Division of Water Sciences*

The water game simulates competitive behavior in reaching co-operative water agreements. The game teaches us how to deal with such negotiations. Delegates will experience how easily trust can be broken and how difficult it is to re-gain it. This role play has been organized in a wide variety of settings (conferences, seminars for decision makers, training sessions for young, mid-level and high-level professionals, training courses for master’s students), with participants from various disciplines (law, geography, diplomacy, engineering, social sciences, geology etc.) and geographical (Guayaquil,

Cape Town, Maputo, Dar el Salam, Rome, HohChi Minh City, Mexico, Ghana, Delft, etc.) backgrounds. It has always yielded surprising results. In the most competitive settings, people have shown extreme cooperative attitude and vice versa.

10:45 – 11 a.m. **Coffee Break**

IPJ Rotunda

11 – 12:30 p.m. **Panel Two** (Open to public)

Peace & Justice Theatre

“Hydro-Diplomacy: Global Best Practices”

This panel discusses the positive impacts of Hydro-Diplomacy – collaborative efforts between policymakers, community organizations, tribal and indigenous peoples, and private sector interests – in supporting adaptation to climate change, and preventing and mitigating environmental degradation. Cases include India-Bangladesh-Nepal, Israel-Palestine-Jordan, and U.S.- Canada. Panelists will distill best global practices for transboundary water management.

Gabriel Eckstein, Ph.D., Director, Center for Water Law and Policy, Texas Tech University
“Water Diplomacy and Management in the Middle East”

Bharat H. Desai, Ph.D., Jawaharlal Nehru Chair in International Environmental Law, School of International Studies, Jawaharlal Nehru University, New Delhi
“Sharing of Transboundary Water Resources: Lessons from the Indian Sub-continent”

Saleem Ali, Ph.D., Professor of Environmental Studies, University of Vermont’s Rubenstein School of Environment and Natural Resources
“Water Security and the Role of International Institutions”

Jacques Ganoulis, Ph.D., UNESCO Chair and Network INWEB, Department of Civil Engineering, Aristotle University of Thessaloniki, Greece
“Engaging Stakeholders in Transboundary Water Resources Management: Lessons Learned from Cases in South Eastern Europe”

Moderator: Ami Carpenter, Ph.D., Conference Co-chair, Assistant professor at the Joan B. Kroc School of Peace Studies

12:30 – 2 p.m. **Working Lunch**

IPJ Rooms A/B/C

(For delegates with full conference registration, and for participants with additional fee)

“Envision Possibilities: Transboundary Water Management in San Diego – Tijuana Border Region”

Joint Discussion with:

Roberto Espinoza, Project Manager, Tijuana Office, Mexico Section of International Boundary and Water Commission

Carlos Peña, Division Engineer, Environmental Management Division, U.S. Section of International Boundary and Water Commission

Moderators: Conference Co-chairs Ami Carpenter, Ph.D., Assistant professor at the Joan B. Kroc School of Peace Studies and Michel Boudrias, Ph.D., Chair of the Marine Science and Environmental Studies Department and Academic Director of the Sustainability Initiative at the University of San Diego

12:30 – 2 p.m. Screening of UCSD-TV documentary **Peace & Justice Theatre**

“Los Laureles Canyon: Research in Action”

UCSD-TV Producer Shannon Bradley, in collaboration with Keith Pezzoli of UCSD’s Urban Studies and Planning program.

2:15 – 3:45 p.m. **Panel Three** (Open to public) **Peace & Justice Theatre**

“Applying Collective Wisdom: Future of the Tijuana River Watershed”

This panel will use the Tijuana River Watershed, a microcosm of the complex issues involved in transboundary water management, to explore the challenges and opportunities for greater binational governance. This panel will identify the biggest challenges – including securing political will and funding for managing the watershed – and prospects for sustainable solutions voiced by stakeholders and tribal communities.

Richard Gersberg, Ph.D., Professor of Environmental Health at the Graduate School of Public Health, San Diego State University

“The Tijuana River Estuary: The Good, the Bad and the Warming”

Poliopro Martínez Austria, Ph.D., Director, Instituto Mexicano de Tecnología del Agua

“Research and Technology Opportunities in Mexico”

Bill Toone, Executive Director, ECOLIFE Foundation

“Resolved Community Conflicts: Lessons Learned from Bridging Different Community Interests and Environmental Conservation/Preservation.”

Michael Connolly Miskwish, Environmental Consultant, Adjunct Professor at San Diego State University

“The Search for Rationality in Water Policy”

Assembly Member Lori Saldaña, Speaker Pro Tempore, California State Legislature

“Challenges of the Tijuana River Watershed – A Political Priority?”

Moderated by Rick van Schoik, Director of North American Center for Transboundary Studies, Arizona State University

3:45 – 4 p.m. **Coffee Break** **IPJ Rotunda**

4 – 5:45 p.m. **Working Session II** (For delegates with full conference registration) **IPJ Rooms B/C/D**

“Water the ‘Catalyst’ - Overcoming Diplomatic Barriers”

Lead facilitators *Ami Carpenter, Ph.D., Assistant Professor, Joan B. Kroc School of Peace Studies, Charles B. Wiggins, Professor of Law (retd), University of San Diego and Guest Professor, University of Amsterdam*

Environmental conflict resolution is collaborative problem-solving that brings together the parties of interest to address controversies related to the use and management of natural resources, development and growth, and individual and community health. Managing conflicts effectively is a two-step process that consists of:

- Creatively and insightfully diagnosing what is causing a conflict, and
- Effectively and skillfully taking action to resolve the conflict.

In this workshop, we introduce analytical models (“Circle of Conflict” and “Dimensions of Conflict”) and invite delegates to reflect on the main drivers of conflicts over the shared Tijuana River Valley Watershed. We will discuss the major kinds of environmental conflict – Upstream (planning and policy-making), Midstream (administrative permitting), and Downstream (monitoring, compliance, enforcement and cleanup) – and discuss both existing and new approaches to conflict resolution (advisory groups, task forces, mediation, joint fact-finding, policy dialogues).

5:45 – 7 p.m. Reception (For delegates with full conference registration)

6:30 – 7:30 p.m. *Shuttle from IPJ to Holiday Inn Express and Courtyard Marriott, Old Town*

Friday, November 20

8 – 8:15 a.m. *Gather for departure to the Tijuana Estuary Visitor Center, Imperial Beach, CA. A bus will depart from the University of San Diego campus, West parking lot at 8:15 a.m. (Enter the West entrance, take immediate left and park at the parking structure. The bus will be there.) It will make a second stop at Holiday Inn Express, Old Town at 8:20 a.m. and will depart at 8:30 a.m.*

8:30 – 9:45 a.m. Commute to Tijuana Estuary Visitor Center, Imperial Beach, and on the way visit key impacted areas of the Tijuana River Valley on U.S. side of the border.

9:45 – 10 a.m. Welcome by **Oscar Romo, Ph.D., Watershed Coordinator, Tijuana River National Estuarine Research Reserve**

Coffee and pastries will be served

10 a.m. – 1:30 p.m. Working Session III (For delegates with full conference registration)

“Greening the Border” (Consensus-building workshop)

Lead Facilitators: **Michel Boudrias, Ami Carpenter, Charles B. Wiggins**

Introductory comments by:

Richard Wright, California Water Quality Control Board

Ami Carpenter, Ph.D., Conference Co-chair and Assistant Professor,

Joan B. Kroc School of Peace Studies

Being a core of the conference experience, this workshop enhances our collective capacity for collaboration and change. The basic idea is to build collaborative strategies around what works, rather than trying to fix what doesn't. It is the opposite of problem-solving. To this end, we will: (1) identify a shared vision of a healthy, green border to guide our work; (2) identify our regional core strengths – including the contribution of individuals; (3) aim to generate a flow of new, creative ideas, and (4) agree on concrete steps – based on existing or new initiatives – to hasten our progress toward realizing that vision. This workshop explicitly encourages the formation of alliances between formerly polarized groups, and builds bridges across boundaries of power and authority. It will

enable us to identify the most supportive public policies for transboundary resource management and to address challenges such as securing political will, funding and other resources for increased collaboration on shared priorities.

Coffee break will be announced during the workshop.

1:30 – 2:15 p.m. Lunch

2:15 – 3 p.m. Closing Remarks

3:30 – 4 p.m. *Bus will depart; first stop at Holiday Inn Express, Old Town and second stop at University of San Diego campus
(More details will be announced)*



Joan B. Kroc Institute for Peace & Justice

Speakers, Moderators, Facilitators and Organizers



Saleem Ali, Ph.D., Professor of Environmental Studies, University of Vermont's Rubenstein School of Environment and Natural Resources and Adjunct faculty of Brown University's Watson Institute for International Studies. He is also on the visiting faculty for the United Nations-mandated University for Peace (Costa Rica), where he teaches a course on Indigenous Environment and Development Conflicts. His research focuses on the causes and consequences of environmental conflicts and how ecological factors can promote peace. Ali is author of *Mining the Environment and Indigenous Development Conflicts* (originally published in 2004, and to be out in paperback October 2009) and the editor of *Peace Parks: Conservation and Conflict Resolution* (MIT Press, September 2007). Ali received his doctorate in Environmental Planning from the Massachusetts Institute of Technology, an M.E.S. in Environmental Law and Policy from Yale University, and his bachelor's degree in Chemistry from Tufts University (summa cum laude).



Karla Alvarez, Member of the Conference Steering committee. Program Officer for the WorldLink Program at the Joan B. Kroc Institute for Peace & Justice. As the institute's youth liaison, Alvarez works with over 25 schools in the greater San Diego region to provide opportunities for youth to discuss global issues. In addition to supervising high school interns, Alvarez also collaborates with multiple youth organizations around the world. She volunteers her time to the Cancer Coping Center, Young Professionals for International Cooperation – San Diego (YPIC) and serves on the board of directors of Voices of Women, an organization with a commitment to education on international issues and U.S. foreign policy. Originally from Port Chester, N.Y. Alvarez has also lived in Mexico and France. She is fluent in Spanish and French and studied Italian and Japanese. Alvarez received her B.A. in International Relations from the University of San Diego.



Michel Boudrias, Ph.D., Conference Co-chair. Chair of the Marine Science and Environmental Studies Department and Academic Director of the Sustainability Initiative at the University of San Diego. Boudrias is deeply involved in departmental, College of Arts & Sciences and university-wide academic and campus master planning. He is co-leader of several international environmental research projects in developing nations, with particular success in Baja California Sur. His ecological research is partnered with environmental chemists, sociologists, community advocacy groups and educational entities on both sides of the border. He is a campus leader in building bridges across disciplines and across Schools/Colleges at USD, and has been working with colleagues at other local universities to develop a regional plan for cooperation.



Ami Carpenter, Ph.D., Conference Co-chair. Assistant Professor of Peace Studies at the Joan B. Kroc School of Peace Studies, Carpenter specializes in conflict analysis and resolution. Her expertise in designing and facilitating multi-stakeholder partnerships includes assisting one of the largest public-private partnerships in U.S. history – the Partnership for Critical Infrastructure Security, organized in the aftermath of Sept. 11, 2001.



Daniel R. Cayan is a research meteorologist at the Scripps Institution of Oceanography (SIO), University of California, San Diego, and is also a researcher in the U.S. Geological Survey. His work is aimed at understanding climate variability and changes over the Pacific Ocean and North America. Cayan heads the California Applications Program and the California Climate Change Center, climate research programs to improve climate information and forecasts for decision makers in the California region; see <http://meteora.ucsd.edu/cap/>.



Michael Connolly Miskwish, Campo Band of Kumeyaay Indians. Michael Connolly is the president of Laguna Resource Services, Inc., an environmental consulting company. He has worked for 19 years in management/consulting on environmental, energy and economic development projects. Prior experience includes 12 years of manufacturing/industrial engineering and management in the aerospace industry. He holds a Bachelor of Science degree in Manufacturing Engineering and is an adjunct professor at San Diego State University. He has two published books and many published papers on Kumeyaay history, environmental economics, natural resources and energy, and has worked on the national policy level in the fields of energy, environment and economic development. He has held positions with the National Congress of American Indians, National Tribal Environmental Council, Rural Community Assistance Corporation and the Good Neighbor Environmental Board. Connolly has served a total of 17 years in elected office to the Campo Kumeyaay Nation where he currently consults on renewable energy development.



Serge Dedina, Ph.D. is the co-founder and executive director of WiLD Coast/COSTASALVAjE, an international organization that conserves coastal and marine ecosystems and wildlife, with offices in San Diego and Ensenada. He is the former founding director of The Nature Conservancy's Baja California and Sea of Cortez Program. He was the 2009 recipient of the San Diego Zoological Society's Conservation Medal and the California Coastal Commission's "Coastal Hero" award. Dedina is the author of *Saving the Gray Whale*, a book based on the three years he lived in the gray whale lagoons of Baja California. His new book, *Pirate Sea: Dispatches om the Coast of the Californias* will be published in 2010. Dedina grew up in Imperial Beach and spent his childhood helping to preserve the Tijuana Estuary as a National Wildlife Refuge. He has worked on water quality issues in the San Diego-Tijuana region since the 1980s. Under his direction, the WiLD Coast/COSTASALVAjE "Clean Water Now!" campaign helped to secure over \$100 million in federal funding for sewage infrastructure to alleviate the San Diego-Tijuana beach closure crisis. Dedina holds a Ph.D. in Geography from the University of Texas at Austin and a bachelor's degree in Political Science from the University of California, San Diego.



Bharat H. Desai Ph.D. holds the prestigious Jawaharlal Nehru Chair in International Environmental Law and is Professor of International Law as well as chairman of the Centre for International Legal Studies at the School of International Studies of Jawaharlal Nehru University in New Delhi. As a Humboldt Fellow, he worked at the University of Bonn on the treatise *Institutionalizing International Environmental Law* (New York: Transnational, 2004). He is the author of *Creeping Institutionalization: Multilateral Environmental Agreements and Human Security* (Bonn: UNU-EHS, 2006); *Multilateral Environmental Agreements: Legal Status of the Secretariats* (New York, Cambridge Uni. Press, 2010). He serves as an associate editor of the Yearbook of International Environmental Law (Oxford University Press), as well as vice-chairman of the Foundation for Development of international Law in Asia (The Hague and Singapore).



Ilze Dzenovska, Conference Project and Research Coordinator. Preceding her work as project coordinator at the Joan B. Kroc School of Peace Studies at the University of San Diego (USD), Dzenovska worked as peace writer with the Women PeaceMakers Program at the Joan B. Kroc Institute for Peace & Justice (IPJ) at USD and as a Fulbright student she completed her graduate studies in Peace and Justice Studies at the School of Peace Studies. Dzenovska also holds a law degree from the University of Latvia, a B.A. in Political Science from Riga Stradins University and is an accredited mediator by the School of Psychotherapy and Counseling at Regent's College, London. Prior to her studies in San Diego, Dzenovska's work and research encompassed areas such as victims' rights advocacy, gender equality and restorative justice and police reform projects at the Centre for Public Policy PROVIDUS in Latvia. Dzenovska has directed various criminal justice policy projects that have introduced new legislation and consecutive policy changes in Latvia.



Gabriel Eckstein, Ph.D. is a recognized expert in U.S. and international water law and policy and has lectured at numerous law and science conferences around the world. He served as an advisor and consultant on various water and environmental issues for organizations such as the United Nations, U.S. Agency for International Development and World Commission on Dams. In 2008, he participated as neutral advisor, under the auspices of the Geneva Initiative, in Track II negotiations between Israelis and Palestinians over their shared freshwater resources. Between 2003 and 2008, he advised the U.N. Educational, Scientific and Cultural Organization and the U.N. International Law Commission in their effort to develop a new global treaty for transboundary groundwater resources. Eckstein is the founder and director of the Internet-based International Water Law Project (www.InternationalWaterLaw.org). He also directs Texas Tech University's Center for Water Law & Policy and regularly teaches courses and seminars on U.S. and international water law and environmental law topics.



Roberto Espinoza, Project Manager, Tijuana Office, Mexico Section of International Boundary and Water Commission



Exequiel Ezcurra has devoted his career to the study of northwestern Mexico. He has published more than 200 papers and books, and has developed two museum exhibits and an award-winning film on the Sea of Cortés. He was honored with a Conservation Biology Award and a Pew Fellowship in Marine Conservation; he was Scientific Chair of the CITES Convention and president of Mexico's National Institute of Ecology. Currently, he is the director of the University of California Institute for Mexico and the United States (UC MEXUS) and professor of Ecology at the University of California, Riverside.



Jacques Ganoulis, Ph.D. is a Professor of Civil Engineering at the Aristotle University of Thessaloniki (Greece). He holds a Ph.D. from the University of Toulouse (France) and has been a visiting scholar at the Universities of Erlangen (Germany), McGill (Canada), Melbourne (Australia) and Paris VI, (France). He is an internationally known expert on groundwater and surface water resources management and the director of the UNESCO Chair/International Network of Water-Environment Centres for the Balkans (INWEB) on sustainable management of water and conflict resolution. The UNESCO Chair/INWEB concentrates mainly on transboundary water issues and cooperates closely with UNESCO's International Hydrological Programme. Ganoulis' research interests mainly include engineering risk analysis, fuzzy ecological modelling, floodplain management, as well as the integrated management of internationally shared water resources. He has published more than 180 papers in scientific journals and conference proceedings and, is the editor or author of 10 books including *Transboundary Water Resources Management: Institutional and Engineering Approaches* (SPRINGER, 1996) and *Risk Analysis of Water Pollution* (WILEY-VCH, 1994; 2nd edition, 2009; translated into Chinese).



Richard M. Gersberg, Ph.D. is currently professor and head of the division of Environmental Health in the Graduate School of Public Health at San Diego State University (SDSU), and the former director of the SDSU Coastal Waters Laboratory on San Diego Bay. He has an M.S. in Biology and a Ph.D. in Microbiology from the University of California, Davis. Gersberg specializes in water quality research and has broad experience working with both chemical and microbiological pollutants and ecological and human health risk assessments. He has over 60 scientific publications in these areas. Gersberg has conducted a number of studies on the detection, quantitation and risk posed by pathogens and chemicals in receiving waters, estuaries and the ocean, including the Tijuana Estuary, the Venice Lagoon, Italy, and the Salton Sea, CA. He is currently the principal investigator of a number of water-quality related projects including: the removal and ecotoxicity of selenium in constructed wetlands in the Imperial Valley, the effect of sea-level rise on coastal wetland habitats and water quality in San Diego County, and a risk assessment for the consumption of fish from Imperial Beach.



William R. Headley, C.S.Sp., Ph.D. is a sociologist, counselor and Catholic priest. He has a broad background in church leadership, justice, peace and international aid with experience in over 70 countries. In July 1993, Headley established a graduate program in Conflict Resolution and Peace Studies at Duquesne University, Pittsburgh, PA. He was named deputy executive director of Policy and Strategic Issues, Catholic Relief Services (CRS), in March 2000. As part of CRS' Executive Team, he helped to guide CRS' relief, development and justice/peace programs. Early in 2003, he was appointed counselor to CRS' president, with major responsibility for the agency's peace work. As a peacebuilder, Headley has assisted conferences of bishops in Ghana, Nigeria, the Balkans, Sudan, Haiti and Burundi. He has a doctorate in Sociology (New York University), advanced degrees in Counseling and Theology and has done post-doctoral work at Harvard Divinity School, George Mason University's Institute for Conflict Analysis and Resolution and the Gandhi Peace Institute, New Delhi. In August 2007, Headley became the founding dean of the Joan B. Kroc School of Peace Studies at the University of San Diego.



Todd Jarvis, Ph.D., is the associate director of the Institute for Water and Watersheds at Oregon State University (OSU) in the U.S. He also serves on the faculty for the Environmental Sciences Graduate Program, the Water Resources Graduate Program, and the Graduate Certificate in Water Conflict Management and Transformation. He specializes in online dispute resolution and teaches the online course “Water Governance and Conflict Transformation” through eCampus. He has over 20 years experience as a professional hydrogeologist. He is licensed as an engineering geologist, water rights examiner and mediator. His publications focus on transboundary groundwater, the geopolitics of groundwater and the “dueling expert” problem in groundwater policy. He is an associate editor for the journal *Ground Water* and chair of the Transboundary Ground Water Interest Group (TBGW IG) of the National Ground Water Association.



Polioptro Martínez Austria, Ph.D. Director, Instituto Mexicano de Tecnología del Agua. A civil engineer from the National Polytechnic Institute of Mexico, Martínez obtained a Ph.D in Hydraulics from the National Autonomous University of Mexico, School of Engineering. He has devoted an important part of his professional career to research and teaching, collaborating both in the private and public sectors. In the research field, focused on problems of national interest, he has performed and directed applied research as well as technology development and transfer. In his professional practice, he has directed the efforts of the National Water Commission in the area of transboundary watershed management and cooperation. He is graduate professor at UNAM’s School of Engineering. Martínez has written more than 128 technical articles and is the author of 15 books and book chapters that offer original contributions. He has received the Enzo Levi National Award 2000 for Hydraulics Research and Teaching, and the Miguel A. Urquijo Award for the best technical article. He was the president of the Mexican Hydraulics Association and is a member of the Mexican Sciences Academy, the Engineering Academy, the International Association for Hydraulic Research and Engineering, and the International Water Resources Association. In December 2006, he was appointed director general of the Mexican Institute of Water Technology.



Lee Ann Otto, Ph.D., Member of the Conference Steering Committee. Associate Dean of the Joan B. Kroc School of Peace Studies, Director of the M.A. Program in Peace and Justice Studies, Professor in the Department of Political Science and International Relations. Otto teaches courses in Chinese politics, Japanese politics, comparative revolutions and the law of the sea at both the undergraduate and graduate levels. She has conducted research on East Asian maritime disputes and the rights of indigenous peoples in Canada and the U.S. to marine resources. She is a co-author of *Law and Politics in the People’s Republic of China in a Nutshell*. Her current research focuses on Chinese policies relating to the war on terror specifically as they impact minority groups within China.



Carlos Peña, Jr. is currently the division engineer in the Environmental Management Division at the U.S. Section of the International Boundary and Water Commission (USIBWC). He has coordinated border sanitation and water resource projects for the USIBWC for over 20 years. He has held several positions with the U.S. Section including as the environmental engineer at the Nogales, Arizona Project Office and the San Diego, CA Project Office. He has also served as Foreign Affairs Officer for the agency. Before joining the U.S. Section, he worked with the Environmental Protection Agency in San Francisco. Peña is a registered professional engineer in the State of Texas and holds a bachelor’s degree in Civil Engineering from the University of Texas at El Paso.



Charles W. Pope, Member of the Conference Steering Committee, and the interim director of Trans-Border Institute. Charles worked for 6 years at San Diego Dialogue, a public policy research organization housed in the Division of Extended Studies and Public Programs at the University of California, San Diego (UCSD). Pope brings to the Trans-Border Institute a wealth of knowledge of the border region because of his experience at San Diego Dialogue, which is dedicated to furthering the global competitiveness of the San Diego–Baja California region through increased cross-border collaboration. At San Diego Dialogue, Pope performed a variety of functions including event management, research and analysis, and marketing and outreach. In 2004 he graduated with a master’s degree from the Graduate School of International Relations and Pacific Studies (IRPS) at UCSD. There, his regional specialization was Latin America and his career track was international environmental policy. His expertise lies in economic and sustainable development. Pope is a native of San Diego and speaks both Spanish and Portuguese.



Oscar Romo, Ph.D., is a former United Nations diplomat and now the watershed coordinator at the Tijuana River National Estuarine Research Reserve and lecturer at the UCSD Urban Studies and Planning Program. Romo serves as a delegate to the United Nations Commission on Sustainable Development; participates as a co-chair of the U.S. International Boundary and Water Commission Citizens Forum, the U.S. EPA Border 2012 Water Task Force and the Tijuana River Recovery Team Bi-national Task Force. In Mexico, Romo is a member of the Border Environment Cooperation Commission, Baja California Task Force; the City of Tijuana Urban Planning and Ecology Sub-Committee; and serves as projects coordinator for the Los Laureles Watershed Council. He is also an advisor to the Baja California State Assembly. On April 2007, Romo was recognized as one of the Environmentalists of the Year by the U.S. Environmental Protection Agency, and in 2009 received the Visionary Award from the Urban Land Institute. Romo got his academic credentials in Architecture from La Salle University in Mexico, Urban Studies and Social Housing from the Complutense University and the National Institute for Social Housing in Spain, and Environmental Sciences from La Salle University in Louisiana.



Léna Salamé was born in Beirut in 1974. She graduated as a jurist and obtained her Diplôme d'études approfondies (DEA) in International Public Law and International Organizations from the Panthéon Sorbonne – Université de Paris 1, in 1999. She is a trained mediator. She joined UNESCO's Division of Water Sciences in October 1999. Salamé collaborated in the finalization of the Water Education and Training Vision, and the Aral Sea Basin Vision, in the framework of the World Water Vision. She is now serving as the overall coordinator of PCCP (Potential Conflict to Co-operation Potential), which is the water conflict resolution component of the United Nations World Water Assessment Programme. Salamé lectures on issues related to shared water resources, international conflicts and cooperation, as well as alternative dispute resolution techniques, at international and national events. She also lectures within the framework of educational programs. She is involved in the development of research and educational tools. Such tools aim at increasing trust among stakeholders concerned with the management of shared water resources, at various levels and, contributing to peace, cooperation and development.



Assembly Member Lori Saldaña, who is now in her third term in the California Legislature, serves as Assembly Speaker pro Tempore. Saldaña is a member of the Elections and Redistricting, Legislative Ethics, Housing and Community Development, Revenue and Taxation and Veterans Affairs Committees. She was elected as the 2009-2010 chair of the bi-partisan Legislative Women's Caucus. Saldaña's legislative efforts include measures to increase affordable housing, expand the use of green building methods and renewable energy technology, improve educational opportunities for military families, affirm civil rights and address the problem of hate crimes.



Nilmini Silva-Send, Ph.D., Member of the Conference Steering Committee, and Senior Policy Analyst at Energy Policy Initiatives Center, School of Law, University of San Diego. Silva-Send is engaged in teaching in International and European Environmental and Energy Law, and research in climate change and policy in California. Silva-Send's research interests have been in the area of transboundary air pollution treaties and policy in Europe and Asian regions. She is currently involved in greenhouse gas assessment studies and strategies for fossil fuel based energy reduction in the San Diego region. She has a B.Sc. in Chemistry, an LL.B. from the University of London and Ph.D. in International Law from the University of Kiel, Germany. Silva-Send also has over 10 years of experience with environmental consulting projects both in the United States and Europe.



Bill Toone, executive director ECOLIFE Foundation has a Master of Science degree in Avian Sciences from the University of California at Davis where he studied the reproductive biology of the California condor. Following graduate school, Toone pursued his interest in the California condor and was ultimately assigned to the federally appointed California Condor Recovery Team. Toone played a high-profile role in establishing recovery strategies, collecting eggs in the field and rearing condors in captivity. Since then his conservation work has carried him to all corners of the planet including Antarctica. His background includes national park work in Madagascar, sustainable development programs in Costa Rica, old growth logging studies in Papua New Guinea, recovery of giant peccary in Paraguay, sustainable management practices in Argentina and more. More and more Toone and many of his colleagues were worried by the apparent disconnect between quality of life for people and the health of their natural resources. In 2003 with scientists and colleagues, Toone worked to establish the ECO-LIFE Foundation to help fill this important and neglected niche.



Rick Van Schoik, director, North American Center for Transborder Studies (NACTS). A Consortium of Seven Canadian, U.S., and Mexican Universities. Headquartered at Arizona State University, the New American University. Mr. Van Schoik serves as the first Director of NACTS. His three decade-long experience in developing, funding, managing, and interpreting international programs enables NACTS to pursue complex, multidisciplinary, trilateral research and policy work.

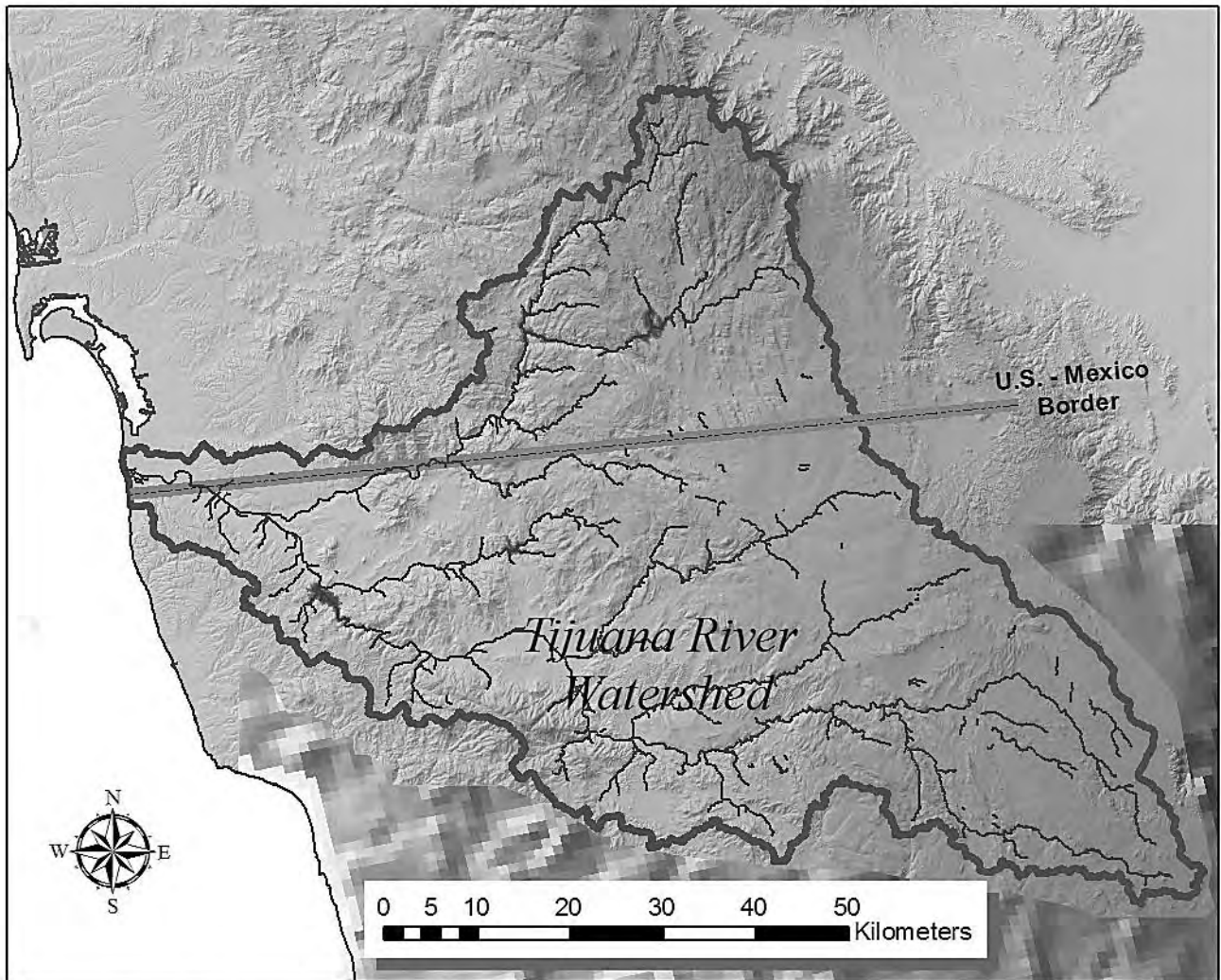


William Ury, Ph.D., co-founded Harvard's Program on Negotiation where he is currently a senior fellow of the Harvard Negotiation Project. He is co-author (with Roger Fisher) of the bestseller *Getting to Yes: Negotiating Agreement Without Giving In*, which has been translated into over 30 languages. Ury is also author of the award-winning *Getting Past No: Negotiating with Difficult People* and *Getting to Peace* (released in paperback under the title *The Third Side*). His most recent book is *The Power of a Positive No: How to Say No & Still Get to Yes* (2007). Over the last 30 years, Ury has served as a negotiation adviser and mediator in conflicts ranging from corporate mergers to ethnic wars in the Middle East, the Balkans and the former Soviet Union. More recently, Ury has served as a third party in helping to end a civil war in Aceh, Indonesia, and helping to prevent one in Venezuela. Trained as a social anthropologist, with a B.A. from Yale and a Ph.D. from Harvard, Ury has carried out his research on negotiation not only in the boardroom and at the bargaining table but also among the Bushmen of the Kalahari and the clan warriors of New Guinea.



Charles B. Wiggins, has recently retired as Professor of Law at the University of San Diego, School of Law. He is also Guest Professor at the Amsterdam Institute for Metropolitan and International Development Studies at the University of Amsterdam in The Netherlands. His specialties include Negotiation and Mediation, Constitutional Law, and Bioethics. He obtained his law degree from the University of California, Hastings, where he was Editor-in-Chief of the Law Journal, and his Masters in Law from Yale University. He is a member of the Order of the Coif. Professor Wiggins has taught law at universities in the United States, England, Italy, China and India. He is the past Chair of the Alternative Dispute Resolution Section of the Association of American Law Schools. Professionally, Professor Wiggins has combined law practice (with Lane Powell Spears Lubersky in Seattle) and public service (as Legislative Counsel to Governor Daniel J. Evans of Washington) with law teaching, training and mediation practice. An accomplished mediator, he has helped parties resolve scores of disputes involving matters contested in litigation, community conflict, and complex public policy matters. Professor Wiggins maintains an extensive international training, mediation and facilitation practice. As Senior Consultant for Partners for Democratic Change, he has spent much of the past two decades in Hungary, the Czech and Slovak Republics, Poland, Russia, Bulgaria, Lithuania and the Republic of Georgia. He worked as negotiation consultant and trainer with the Parliament of the Republic of Georgia. Professor Wiggins headed a project, sponsored by the Asian Development Bank, to conduct trainings and assist in organizing the International Centre for Alternative Dispute Resolution, an official market-oriented mediation center based in India and serving the nations of South Asia. In 1994, Professor Wiggins served as US State Department Professional-in-Residence, advising the United Nations-sponsored Constitutional Convention in Malawi, in southern Africa. He is the recipient of three Fulbright Fellowships: to India, and twice to The Netherlands. He also offered the first mediation and negotiation trainings to judges, lawyers, public officials, NGO representatives and business leaders in five States in eastern India, based in Calcutta and sponsored by the US State Department. Professor Wiggins is co-author of a widely used book on effective negotiation and settlement techniques, now in its second edition, published by West Publishing Company. He and his family live in Portland, Oregon.





Data Source: <http://geography.sdsu.edu/Resources/Data/Clearinghouse/trw.php>

Map Production: Dept. of Marine Science & Env. Studies, GIS and Spatial Analysis Lab, University of San Diego

