Advanced Workshop in Regulation and Competition

32nd Annual Western Conference

Hyatt Regency, Monterey, California on June 26-28, 2019

The Conference features some of the latest developments in the network industries, especially energy, including:

- Deregulation
- Market Structure
- Policy and Regulatory Issues
- Environmental Policy and GHG
- Telecommunications and Water
- Pricing and Demand Response
- Capacity and Reliability

Who should attend:

- Industry Economists, Consultants and Attorneys
- Marketing and Regulatory Managers
- Regulatory Commission Staff

Dinner Speaker: Drew Bohan

CENTER FOR RESEARCH IN REGULATED INDUSTRIES

The Center for Research in Regulated Industries, located at Rutgers University, aims to further study of regulation in economics, finance, and institutions. Its publications, seminars, workshop, and courses make available the latest advances to academics, managers, and regulatory commission staff. The Center has over thirty five years of experience providing research, instruction, conferences, courses, seminars, and workshops in economics of network industries. The Center’s Journal of Regulatory Economics is an international scholarly bi-monthly publication intended to provide a forum for the highest quality research in regulatory economics. Other research from the Center’s programs has been published in the book series Topics in Regulatory Economics and Policy.

crrri@business.rutgers.edu
www.business.rutgers.edu/CRRI

Rutgers Business School ● 1 Washington Park, Room 1104 ● Newark, NJ 07102-1897
973-353-5761
### 32nd Annual Western Conference

**CRRI – Rutgers University**

**WEDNESDAY, JUNE 26, 2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00 – 4:30</td>
<td>Registration</td>
<td>Monterey Terrace</td>
</tr>
<tr>
<td>4:30 – 6:05</td>
<td>Welcome to Conference: Victor Glass</td>
<td>Grove Room</td>
</tr>
<tr>
<td>4:35 – 6:00</td>
<td><strong>Karl A. Mc Dermott</strong> Decoupling a Policy History: The long and Winding Road to Acceptance&lt;br&gt;<strong>Darryl Biggar and Alberto Heimler</strong> Hipster Antitrust, Sunk Investments and the Economic Foundation of Competition Law&lt;br&gt;<strong>Tim Brennan</strong> Overturning Chevron: Be Careful What You Wish For&lt;br&gt;<strong>Matt Coldwell</strong> Decarbonizing Transportation</td>
<td>Grove Room</td>
</tr>
<tr>
<td>6:00 – 7:00</td>
<td>Cocktail Hour</td>
<td>Monterey Terrace</td>
</tr>
<tr>
<td>7:00 – 9:00</td>
<td>Dinner &amp; <strong>Keynote Speech: Drew Bohan</strong></td>
<td>Beach Room</td>
</tr>
<tr>
<td>9:00 – 10:00</td>
<td>Reception</td>
<td>Monterey Terrace</td>
</tr>
</tbody>
</table>

**THURSDAY, JUNE 27, 2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Concurrent Sessions</th>
<th>Grove</th>
<th>Pacific</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 – 10:00AM</td>
<td>Concurrent Sessions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Performances Base</td>
<td>Safety</td>
<td>Chair: David Sappington&lt;br&gt;Discussants: Carl Peterson&lt;br&gt;&lt;br&gt;Karl A. Mc Dermott and Ross C. Hemphill: Regulatory Risk Re-Examined</td>
<td>Chair: Joseph Abhulimen&lt;br&gt;Discussants: Stephen St. Marie&lt;br&gt;&lt;br&gt;Ephram Glass and Victor Glass: Underground Power Lines Can be the Least Cost Option&lt;br&gt;&lt;br&gt;Megan Accordino, R. Jeffrey Malina, and Ryan Hughes: The Impact of Regulatory Uncertainty on Electric Utilities, Rate Payers, and Investors</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:00 – 10:20AM</td>
<td>Coffee &amp; Tea Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:20 – Noon</td>
<td>Concurrent Sessions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electricity and Gas Pricing, and Cost Allocation</td>
<td>Electricity Markets and Procurement</td>
<td>Chair: Carl Peterson&lt;br&gt;Discussants: Carl Danner</td>
<td>Chair: Eric Korman&lt;br&gt;Discussants: Kevin Woodruff, Jason Hansen</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alberto J. Lamadrid and Tim Mount: Peak-Load Pricing Revisited</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jan Grygier: Be Careful What You Ask For: Customer Response to TOU Rates With and Without shiftable Demand</td>
<td>Hung-po Chao: Capacity Market With State Subsity Programs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Noon – 1:15PM</td>
<td>Lunch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:15 – 3PM</td>
<td>Concurrent Sessions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clean Energy</td>
<td>Rates for Distributed Energy Resources</td>
<td>Chair: TBA&lt;br&gt;Discussants: Emma Dong, Carl Danner&lt;br&gt;&lt;br&gt;Tim Brennan: CPP vs. ACE: Economics or Ethics</td>
<td>Chair: Cyndee Fang&lt;br&gt;Discussants: Darryl Biggar&lt;br&gt;&lt;br&gt;Amparo Nieto: Efficient Compensatory Framework for Microgrids and Energy Storage for their Value as Grid and Capacity Resources</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>John Higham: Develop a cost-benefit analysis test for utility electrification programs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mariko Geronimo Aydin: Reinventing Demand Response</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:00 – 3:15PM</td>
<td>Break</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
32nd Annual Western Conference
CRRI – Rutgers University

3:15 – 5PM  Concurrent Sessions

<table>
<thead>
<tr>
<th>Resiliency</th>
<th>Distributed Energy Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair: Mariko Geronimo Aydin</td>
<td>Chair: Margot Everett</td>
</tr>
<tr>
<td>Discussants: Mariko Geronimo Aydin</td>
<td>Discussants: Cyndee Fang</td>
</tr>
<tr>
<td>Jeremy Battis: Physical Security of Infrastructure</td>
<td></td>
</tr>
</tbody>
</table>

FRIDAY, JUNE 28, 2019

8:30 – 10:00AM  Concurrent Sessions

Grove | Pacific

<table>
<thead>
<tr>
<th>Energy Markets-Regionalization</th>
<th>Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair: Tim Brennan</td>
<td>Chair: Menahem Spiegel</td>
</tr>
<tr>
<td>Discussants: Ryan Kurlinski</td>
<td>Discussants: Stephen St. Marie</td>
</tr>
</tbody>
</table>

10 – 10:30AM  Coffee and Tea Break, & Check out

10:30 – 12:15PM  Concurrent Sessions

<table>
<thead>
<tr>
<th>Energy Markets-Renewables</th>
<th>Rate Design Policy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair: Megan Accordino</td>
<td>Chair: Paul Nelson</td>
</tr>
<tr>
<td>Discussants: Kevin Woodruff, Darryl Biggar</td>
<td>Discussants: Trina Horner</td>
</tr>
<tr>
<td>Emma Dong: The Cost of Wind Intermittency: Evidence From Texas</td>
<td>Mariko Geronimo Aydin: Rate Design for the Digital Age</td>
</tr>
<tr>
<td>Hung-po Chao: Demand Response for Clean Power Under Uncertainty</td>
<td></td>
</tr>
</tbody>
</table>

12:15 –12:20  Concluding Remarks – Victor Glass

SPEAKERS DISCUSSANTS & CHAIRS

Joseph Abhulimen, Program/Project Supervisor, CPUC
Megan Accordino, Manager, Analysis Group
Anthony Alvarez, Utility Analyst, Indiana Office of the Utility Consumer Counselor
Matt Arenchild, Managing Director, Navigant
Mariko Geronimo Aydin, The Brattle Group
Jeremy Battis, Risk and Safety Analyst, CPUC
Ruben Belihomji, Financial Analyst, Southern California Edison
Darryl Biggar, Australian Competition and Consumer Commission
Drew Bohan, Executive Director, California Energy Commission
Tim Brennan, University of Maryland Baltimore County

JP Carvallo, Sr. Scientific Engineering Associate, Lawrence Berkeley National Laboratory
Edward Cazalet, CEO TeMIX Inc.
Hung-po Chao, Chief Economist and Senior Director Economics – Operations and Markets, PJM Interconnection
Janie M. Chermak, Professor, University of New Mexico
Matt Coldwell, Manager, Demand Analysis, California Energy Commission
Elaine Cunha, The Brattle Group
Carl Danner, Managing Director, Berkeley Research Group
Naim Darghouth, Research Associate, Lawrence Berkeley National Laboratory
Emma Dong, Associate, Analysis Group
32nd Annual Western Conference

Erik Ela, Senior Technical Leader, EPRI
Robert Entriken, Principal Technical Leader, EPRI
Margot Everett, Director, Navigant
Cyndee Fang, Manager of Customer Pricing, SDG&E
Derek Fong, Senior Utilities Engineer, CPUC
William Fuller, Regulatory Business Manager, San Diego Gas and Electric
Ephram Glass, Consultant
Victor Glass, Director CRRI and Professor of Professional Practice, Rutgers University
Jan Grygier, Principal Data Scientist, PG&E
Jason Hansen, Senior Economist, Idaho National Laboratories
Udi Helman, Consultant
John Higham, The Brattle Group
Trina Horner, Director ‘Energy’, Navigant
Ryan Hughes, Associate, Analysis Group
Raminder Kahlon, Director of the Water Division, CPUC
Dennis Keane, Senior Manager, Rate Design and Quantitative Analysis, PG&E
Stephen Kechn, Associate Director, Navigant
Robert Kelly, Vice President, Regulatory Affairs, SouthWest Water Company
Erie Korman, Vice President, Analysis Group
Ryan Kurlinski, Manager, Analysis and Mitigation Group, CAISO
Alberto J. Lamadrid, Associate Professor of Economics, Lehigh University
Joseph Long, Energy Economics Analyst, Aspen Environmental Group
Elizaveta Malashenko, Director, Safety Enforcement Division, CPUC
R. Jeffrey Malinak, Managing Principal, Analysis Group Inc.
Mark S. Martinez, Manager, Emerging Markets & Technologies, Southern California Edison
Carl A. McDermott, Ameren Professor of Government and Business, University of Illinois-Springfield
Andrew Mills, Research Scientist, Lawrence Berkeley National Laboratory
Gwen Morien, Rate Strategy Project Manager, San Diego Gas and Electric
Tim Mount, Professor, Cornell University
Paul D. Nelson, Consultant, Barkovich and Yap
Amparo Nieto, Senior Vice President, Economists Inc.
Carly J. Page, Economist, Public Utilities Commission of Nevada
Samantha Pate, Sr. Regulatory Manager, San Diego Gas and Electric
Robert H. Patrick, Associate Professor, Rutgers University
Erin Pulgar, Project Manager, SCE
Nguyen Quan, Manager, Regulatory Affairs, Golden State Water Company
Andre Ramirez
David Sappington, Professor, University of Florida
Ed Smeloff
Menahem Spiegel, Professor, Rutgers Business School
Jeff Stein, Manager, Customer Pricing, San Diego Gas and Electric
Aidan Tuohy, Senior Project Manager, EPRI
Karl Dunkle Werner, The Brattle Group
Kevin Woodruff, Woodruff Expert Services
Eric Woychik, Senior Vice President, Willdan Group

ORGANIZING COMMITTEE
Matthew Arenchild (Navigant Consulting, Inc.)
Carl Danner (Berkeley Research Group)
Robert Entriken (EPRI)
Cynthia Fang (San Diego Gas and Electric)
Ahmad Faruqui (The Brattle Group)
Victor Glass (Rutgers University)
Rami Kahlon (California Public Utilities Commission)
Dennis Keane (Pacific Gas and Electric)
Eric Korman (Analysis Group)
Paul Nelson (Barkovich and Yap)
Amparo Nieto (Economists Inc.)
Ryan Kurlinski (CAISO)
Kevin D. Woodruff (Woodruff Expert Services)

HOTEL RESERVATIONS
Sufficient Rooms are reserved at the Hyatt Regency Monterey for all of the Conference participants. Reservations should be received by May 26, 2019. Hotel reservation can be made by using the following Passkey Link:

Regency Monterey
1 Golf Course Road
Monterey, California, 93940, USA
1-888-421-1442

If you are not making reservations through the link above please identify yourself as being held under the group block: Rutgers University CRRI Program.
CONTACTING CRRI
Victor Glass, Director – CRRI and Professor of Professional Practice, Rutgers University
Home Page: www.business.rutgers.edu/CRRI
Address: Center for Research in Regulated Industries, Rutgers Business School, Rutgers University, 1 Washington Park, Room 1120, Newark, NJ 07102-1897
Phone: 973-353-5761
Email: vglass@business.rutgers.edu (Victor Glass) crri@business.rutgers.edu (CRRI Admin Asst)

REGISTRATION INFORMATION
To Register: Please complete and return the form to CRRI. Registrations are accepted by mail, email, fax, and telephone. Please confirm telephone registrations by sending in a completed and signed registration form. The deadline for registrations is May 24, 2019. Registrations received after May 24, 2019 will be admitted on a space available basis.

Volume discount: Second and subsequent applications received in the same envelope, fax, email, or made at the same time by phone will receive a 5% volume discount.

Payment Information: Make checks payable to “Rutgers University” and mail to the attention of at the above address. Fees include prescribed learning materials, dinner on Wednesday night, June 26, 2019, all receptions and coffee breaks, but do not include lodging and other meals. The government registration fee is available for government employees.

REGISTRATION FORM: 32nd Annual Western Conference
Name
Title:
Company:
Complete Address:
Telephone: Fax:
Email:

Billing Information:
__ Payment enclosed $1,135 U.S. Dollars
__ Send invoice to participant at above address.
__ Send invoice to__________________________
__ Credit Card: __ VISA __ MC Exp. ____/____ CVC Code:____ Card #__________________________

GOVERNMENT RATE: Government employees may apply for reduced enrollment fees.
__ I would like to apply for the govt rate of $610

CANCELLATION POLICY: Until May 9, 2019 cancellation is allowed without penalty and refunds will be allowed in full. After this date, the indicated fee is due in full whether or not the participant actually attends. Substitutions may be made at any time.

Signature of Participant: _________________________________