## IPU's Annual Regulatory Studies Program: The Fundamentals Course

### Welcome Reception and Registration - 5:30 pm to 6:30 pm in Red Cedar Room AB

### Weekend Activities
- **SAT 15-AUG**
  - MI Options Efficiency House Tour

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### Sunday, 9-Aug

#### General Sessions (Big.10BC)
- **7:00 to 8:15**
  - Registration/Breakfast - Red Cedar AB
- **8:15 to 8:30**
  - Welcome and Overview - Big10BC
- **8:30 to 10:00**
  - Introduction to Regulation: Theory, Principles, Concepts, and Institutions (Beecher) - Big10BC
- **10:00 to 10:30**
  - Break
- **10:30 to 12:15**
  - Introduction (continued)
- **12:15 to 1:30**
  - Lunch Break on your own
- **1:30 to 3:00**
  - The Utility Industries Compared (Panel) - Big10BC
- **3:00 to 3:30**
  - Break
- **3:30 to 5:30**
  - Electricity: Economics, Structure, and Regulation (Rose) - Big10C
  - Natural Gas: Economics, Structure, and Regulation (Pearce) - Big10B
  - Water and Wastewater Systems (Burton) - Room 61
  - Telecom: Economics, Structure, and Regulation (Gillan) - Room 62
- **6:00 to 8:00**
  - Welcome Dinner

### Monday, 10-Aug

#### Breakout Sessions
- **8:30 to 10:00**
  - Introduction to Regulation and Industry Structures
- **10:00 to 10:30**
  - Registration/Breakfast - Red Cedar AB
- **10:30 to 12:00**
  - Welcome and Overview - Big10BC
- **12:00 to 1:30**
  - Legal Standards, Precedents, and Processes (Reiter) - Big10BC
- **1:30 to 3:00**
  - The Utility Industries Compared (Panel) - Big10BC
- **3:00 to 3:30**
  - Break
- **3:30 to 5:30**
  - Electricity: Economics, Structure, and Regulation (Rose) - Big10C
  - Natural Gas: Economics, Structure, and Regulation (Pearce) - Big10B
  - Water and Wastewater Systems (Burton) - Room 61
  - Telecom: Economics, Structure, and Regulation (Gillan) - Room 62
- **6:00 to 8:00**
  - Breakout Sessions

### Tuesday, 11-Aug

#### Breakout Sessions
- **8:30 to 10:00**
  - Basics of Economic Regulation and Ratemaking (Haar) - Big10BC
- **10:00 to 10:30**
  - Break
- **10:30 to 12:00**
  - Basics (continued)
- **12:00 to 1:30**
  - Legal Standards, Precedents, and Processes (Reiter) - Big10BC
- **1:30 to 3:00**
  - Energy: Federal-State Jurisdiction and Legal Issues (Reiter) - Big10BC
- **3:00 to 3:30**
  - Break
- **3:30 to 5:00**
  - Electrical: Economics, Structure, and Regulation (Rose) - Big10C
  - Natural Gas: Economics, Structure, and Regulation (Pearce) - Big10B
  - Water: Economics, Structure, and Regulation (Beecher) - Room 61
  - Telecom: Jurisdiction and Policy (Gillan) - Room 62
- **5:15 to 6:15**
  - Breakout Sessions

### Wednesday, 12-Aug

#### Accounting and Finance
- **8:30 to 10:00**
  - Principles and Standards for Accounting and Reporting (Parrish) - Big10BC
- **10:00 to 10:30**
  - Break
- **10:30 to 12:00**
  - Regulatory Finance Principles: Risk, Return, and the Cost of Capital (Kihm) - Big10BC
- **12:00 to 1:30**
  - Lunch Break on your own
- **1:30 to 3:00**
  - Tools and Procedures for Audits and Investigations (Parrish) - Big10BC
- **3:00 to 3:30**
  - Break
- **3:30 to 5:00**
  - Engineering Basics: Power Systems (Mitra) - Riverside
  - Engineering Basics: Power Grids (Mitra) - Riverside
- **5:15 to 6:15**
  - Breakout Sessions

### Thursday, 13-Aug

#### Costs, Prices, and Rate Design
- **8:30 to 10:00**
  - Introduction to Cost Allocation and Rate Design (Beecher) - Big10BC
- **10:00 to 10:30**
  - Break
- **10:30 to 12:00**
  - Load Management and Dynamic Pricing (Conzelmann) - Big10BC
- **12:00 to 1:30**
  - Lunch Break on your own
- **1:30 to 3:00**
  - Retail Costing and Pricing for Electricity (Beauchamp) - Big10C
  - Wholesale Costing and Pricing for Natural Gas (Peterson) - Big10B
  - Accounts and Finances for Water Systems (Osborne) - Room 61
- **3:00 to 3:30**
  - Break
- **3:30 to 5:00**
  - Wholesale Costing and Pricing for Electricity (Beauchamp) - Big10C
  - Retail Costing and Pricing for Natural Gas (Peterson) - Big10B
  - Cost Allocation and Rate Design for Water (Osborne) - Room 61
- **5:15 to 6:15**
  - Bonus: Developments in Alternative Energy (Conzelmann) - Big10C

### Friday, 14-Aug

#### Performance, Ethics, and Energy Tour
- **8:30 to 10:00**
  - Regulation, Investment, and Performance (Peterson) - Big10BC
- **10:00 to 10:30**
  - Break
- **10:30 to 12:00**
  - Regulatory Independence and Ethics (Beecher) - Big10BC
- **12:00 to 12:30**
  - Box Lunch
- **12:30 to 5:00**
  - Campus Microgrid Overview and Facilities Tour (Lakos) - Big10BC
- **5:00**
  - Adjourn

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Program page: ipu.msu.edu/camp
Program app: zwoor.com
www.greatlakesfolkfest.net
### IPU'S ANNUAL REGULATORY STUDIES PROGRAM: THE INTERMEDIATE COURSE

**SUN 16-AUG**

**REGULATORY TRANSMISSIONS**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 to 8:15</td>
<td>Registration/Breakfast - Red Cedar AB</td>
</tr>
<tr>
<td>8:15 to 8:30</td>
<td>Welcome and Overview</td>
</tr>
<tr>
<td>8:30 to 9:30</td>
<td>Risk, Adaptation, and the Regulatory Compact [Beecher] - Big10C</td>
</tr>
<tr>
<td>10:00 to 10:30</td>
<td>Break</td>
</tr>
<tr>
<td>10:30 to 12:00</td>
<td>Trends in Energy Demand, Supply, and Prices [LaRose] - Big10C</td>
</tr>
<tr>
<td>12:00 to 12:30</td>
<td>LUNCH BREAK ON YOUR OWN</td>
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<tr>
<td>12:30 to 1:30</td>
<td>Environmental Regulation: Climate and Air Policy [Eschmann] - Big10C</td>
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<tr>
<td>1:30 to 3:30</td>
<td>Communications Market and Regulatory Structures [Bauer] - Room 62</td>
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<tr>
<td>3:30 to 3:50</td>
<td>Energy Resource Integration and Planning [Veselka] - Big10C</td>
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<tr>
<td>5:15 to 6:15</td>
<td>Break</td>
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**MON 17-AUG**

**GENERAL SESSIONS [Big-10C]**

<table>
<thead>
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<td>10:00 to 10:30</td>
<td>Welcome and Overview</td>
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<tr>
<td>10:30 to 12:00</td>
<td>Trends in Telephony and Media [Bauer] - Room 62</td>
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<tr>
<td>12:00 to 12:30</td>
<td>LUNCH BREAK ON YOUR OWN</td>
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<tr>
<td>12:30 to 1:30</td>
<td>Regulatory Frameworks</td>
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<tr>
<td>1:30 to 3:30</td>
<td>Big10C - Room 62</td>
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<tr>
<td>3:30 to 3:50</td>
<td>Big10C - Room 62</td>
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<tr>
<td>5:15 to 6:15</td>
<td>Break</td>
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**TUE 18-AUG**

**TRENDS AND DRIVERS**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>9:00 to 10:00</td>
<td>Economics of Environmental Policies [Rose] - Big10C</td>
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<tr>
<td>10:00 to 10:30</td>
<td>Break</td>
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<tr>
<td>10:30 to 12:00</td>
<td>FERC Jurisdiction and Policy Issues [Greenfield] - Big10C</td>
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<tr>
<td>12:00 to 12:30</td>
<td>LUNCH BREAK ON YOUR OWN</td>
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<tr>
<td>12:30 to 1:30</td>
<td>Wholesale Markets [Rose] - Big10C</td>
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<tr>
<td>1:30 to 3:00</td>
<td>Transmission Economics, Policy, and Pricing [Rose] - Big10C</td>
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<tr>
<td>3:00 to 3:30</td>
<td>Water System Planning and Resiliency [Naumick] - Room 61</td>
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<tr>
<td>3:30 to 5:00</td>
<td>Wholesale Gas Markets [Foley] - Centennial BC</td>
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<tr>
<td>5:15 to 6:15</td>
<td>Bonus 1: Long-Term Resource Outlook [LaRose] - Big10C</td>
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<tr>
<td>5:15 to 6:15</td>
<td>Bonus 2: Resource Integration Modeling [Veselka] - Centennial BC</td>
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**WED 19-AUG**

**MARKETS AND PERFORMANCE**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:00 to 10:00</td>
<td>Market Power and Antitrust Policy [Argenicht] - Big10C</td>
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<tr>
<td>10:00 to 10:30</td>
<td>Break</td>
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<tr>
<td>10:30 to 12:00</td>
<td>Wholesale Gas Markets [Foley] - Centennial BC</td>
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<td>12:00 to 12:30</td>
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<td>Wholesale Gas Markets [Foley] - Centennial BC</td>
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<td>1:30 to 3:00</td>
<td>Transmission Economics, Policy, and Pricing [Rose] - Big10C</td>
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<tr>
<td>3:00 to 3:30</td>
<td>Water System Asset Management [Naumick] - Room 61</td>
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<tr>
<td>3:30 to 5:00</td>
<td>Electricity Market Monitoring [Rose] - Big10C</td>
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<tr>
<td>5:15 to 6:15</td>
<td>Bonus 2: Regional Coordination and Regulation [Pastawski] - Centennial BC</td>
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**THU 20-AUG**

**REGULATORY INCENTIVES AND TOPICAL WORKSHOPS**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>9:00 to 10:00</td>
<td>Regulatory Alternatives and Incentives [Dismukes] - Big10C</td>
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<tr>
<td>10:00 to 10:30</td>
<td>Break</td>
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<tr>
<td>10:30 to 12:00</td>
<td>Retail Electricity Choice [Rose] - Big10C</td>
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<tr>
<td>12:00 to 12:30</td>
<td>LUNCH BREAK ON YOUR OWN</td>
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<tr>
<td>12:30 to 1:30</td>
<td>Ratecase Auditing [Smith] - Centennial BC</td>
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<td>1:30 to 3:00</td>
<td>Distribution Reliability and Outage Response [TBD] - Big10C</td>
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<tr>
<td>3:00 to 3:30</td>
<td>Grid Intelligence and Cybersecurity [Hausmann] - Big10C</td>
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<td>Grid Intelligence and Cybersecurity [Hausmann] - Big10C</td>
</tr>
<tr>
<td>5:15 to 6:15</td>
<td>Bonus 1: Developments in Gas Markets [Dismukes] - Big10C</td>
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</tbody>
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**FRI 21-AUG**

**CONSUMER PROTECTION AND TOPICAL WORKSHOPS**

<table>
<thead>
<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>9:00 to 10:00</td>
<td>Consumer Protection and Advocacy [Munsch] - Big10C</td>
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<tr>
<td>10:00 to 10:30</td>
<td>Break</td>
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<tr>
<td>10:30 to 12:15</td>
<td>Developing and Evaluating Energy Efficiency Programs [Taylor] - Big10C</td>
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<tr>
<td>12:15</td>
<td>A D J O U R N</td>
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