

58TH ANNUAL REGULATORY STUDIES PROGRAM "CAMP2016"

Fundamentals Course: August 8-12, 2016 | Kellogg Center | East Lansing, MI

Intermediate Course: August 15-19, 2016 | Kellogg Center | East Lansing, MI

MICHIGAN STATE UNIVERSITY | INSTITUTE OF PUBLIC UTILITIES REGULATORY RESEARCH AND EDUCATION

ABOUT THE PROGRAM. The Institute's 58th Annual Regulatory Studies Program is set for **August 8-19, 2016**. This essential two-week program, known as "Camp NARUC" and NARUC endorsed, is designed specifically and exclusively to meet the needs of public-sector regulatory professionals, particularly members of the National Association of Regulatory Utility Commissioners. With more than 1,000 years of experience, the Institute's diverse program faculty is drawn from various academic, governmental, and other organizations. Presentations cover all aspects of the regulatory process, as applied generally and particularly to electricity, natural gas, water, and telecommunications sectors. Methods of instruction provide opportunities for exploration and interaction, and concurrent and bonus sessions allow participants to tailor the program to their particular needs and areas of interest and responsibility. Attendees receive a certificate of completion from Michigan State University and the program is consistently eligible for CLE and CPE credits in most jurisdictions.

PROGRAM BENEFITS. The Annual Regulatory Studies Program:

- Is designed specifically and exclusively for regulators and other public-sector policy-makers.
- Creates a unique opportunity for total immersion in modern regulatory theory, institutions, and processes.
- Presents timely, essential, and practical information, perspectives, and decision-making tools.
- Takes a neutral and reasoned approach to contemporary structural and regulatory change.
- Provides an opportunity to learn from highly skilled experts from various disciplines and backgrounds.
- Encourages active learning and interaction among program faculty members and participants.
- Facilitates the formation of life-long networks among professional colleagues in the regulatory policy field.

PROGRAM FORMAT. The Annual Regulatory Studies Program is grounded in sound regulatory theory and established practices. The curriculum is comprehensive and intensive and includes general sessions, topical workshops, and sector-specific tracks on the electricity, natural gas, water, and telecommunications sectors. The Fundamentals Course (week 1) focuses on the foundations and fundamentals of utility regulation. The program emphasizes the disciplines and skills essential for participating in an increasingly demanding and complex regulatory process. Core economic, legal, accounting, finance, and policy theories and concepts are introduced. The Fundamentals Course is especially suited to attendees relatively new to utility regulation. The Intermediate Course (week 2) concentrates on dynamic structural and regulatory issues, including emerging methods, issues, and sector-specific market concerns. Week Two will be of interest to both new and seasoned regulatory personnel. Multiple tracks allow participants to explore various areas of interest. Interactive instruction emphasizes applied technical knowledge.

WHO SHOULD ATTEND. The Camp program is designed specifically for personnel of local, state, and federal agencies involved in utility industry regulation. Participation is open only to individuals working for governmental and public-sector organizations. Eligible attendees include new commissioners, professional commission staff, consumer advocates, legislators and legislative staff, attorneys general and their staff, and international regulators. The format and content of the program can accommodate the needs of regulatory professionals based on their professional development needs, job responsibilities, work experience, and level of expertise. Discipline-based sessions, sector-based tracks, and special workshops allow attendees to focus on distinct areas of interest. New personnel will benefit from attending the Fundamentals Course or the entire two-week program. Seasoned professionals - including former attendees - are welcome to return to the Intermediate Course. The program can also provide an educational retreat for groups of commissioners or agency staff members. Public-sector consultants and attorneys may inquire about eligibility.

COME BACK TO CAMP! As a leading provider of continuing education in our field, IPU welcomes new and "experienced" campers and the program provides a great opportunity to reflect and refresh. The Camp curriculum builds on a tradition of knowledge and experience while incorporating new developments in the regulatory field. The first week can be used to revisit the fundamentals, the basic "why and how" of economic regulation in the contemporary context. The second week stands alone as a short course for new and seasoned professionals who need timely information to meet the challenges of modern regulation. Concurrent tracks in the industry sectors and special workshops provide opportunities for immersion in new issues. Daytime and evening sessions, along with networking breaks, encourage interaction among attendees and program faculty. Even for those who have attended IPU programs in the past, lifelong learners will find that coming back to Camp will be a professionally enjoyable and beneficial experience. And keep in mind that IPU programs are eligible for continuing education credits as well as IPU's new Certificate of Continuing Regulatory Education, details of which are available at www.ipu.msu.edu.

WEEK 1. FUNDAMENTALS COURSE

MON | Introduction to regulation and industry structures

- Regulatory theory, principles, concepts, and institutions
- The public utility industries compared
- Economics, structure, and regulation of the electricity, natural gas, water, and telecom
- Welcome dinner

TUE | Regulatory process and legal frameworks

- Basics of economic regulation and ratemaking
- Legal standards, precedents, and processes
- Federal and state jurisdiction and legal issues in energy, water, and telecom sectors
- Bonus: regulatory appeals
- Bonus: critical infrastructure and assurance planning

WED | Accounting and finance

- Principles and standards for accounting and reporting
- Regulatory finance principles: cost of capital & rate of return
- Tools and procedures for audits and investigations
- Regulatory finance applications: models and policy analysis
- Engineering basics for power systems and power grids
- Bonus: utility financial data

THU | Costs, prices, and rate design

- Introduction to cost allocation and rate design
- Load management and dynamic pricing
- Wholesale and retail pricing for electricity and natural gas
- Accounts, finances, and rate design for water systems
- Bonus: comparative perspective on energy policy

FRI | Performance, ethics, and energy tour

- Regulation, investment, and performance
- Regulatory independence and ethics
- Afternoon: MSU campus energy model and facilities tour (optional)

FRI-SUN | Special activities

- Great Lakes Folk Festival (all weekend)
- Registration on Sunday afternoon for Week 2 attendees



WEEK 2. INTERMEDIATE COURSE

MON | Regulatory frameworks

- Utilities, networks, and the regulatory compact
- Environmental regulation: climate and air policy
- Trends in energy demand, supply, and prices
- Methods for forecasting supply and demand
- Trends in Telephony and Media
- Communications market and telecom jurisdiction
- Bonus: critical infrastructure protection

TUE | Trends and drivers

- Economics of environmental policies
- Federal jurisdiction and policy in energy and telecom
- Energy resource integration, planning, and modeling
- Net neutrality and digital inequality
- Gas pipeline and water quality regulation
- Bonus 1: FERC information resources
- Bonus 2: FCC rulemaking

WED | Markets and performance

- Market power and antitrust policy
- Wholesale electricity markets and market monitoring
- Wholesale gas markets, procurement and supply
- Energy optimization, asset management & planning in water
- Transmission economics, policy, and pricing
- Electricity market power and monitoring
- Telecom technologies, business models, and service quality
- Evolution of IP networks and protocols
- Trends in water demand
- Bonus 1: transmission investment and operation
- Bonus 2: universal service issue

THU | Resource economics and topical workshops

- Regulatory alternatives and incentives
- Rate case auditing, cost forecasting and risk allocation
- Management performance review
- Retail electricity markets and electricity reliability
- Gas supply, procurement, and gas pipeline safety regulation
- Regulatory policy for broadband
- Intercarrier compensation and intelligent networks
- Graduation party and ceremony

FRI | Consumer protection and topical workshops

- Consumer protection and advocacy
- Networks security
- Regulatory ethics
- Alternative dispute resolution and mediation

Please visit ipu.msu.edu for program details and updates