# CURENT Smart Grid Summer Camp at Rensselaer Polytechnic Institute

**July 9 - 13, 2018**

**Camp Coordinators:** Joe Chow, Meng Wang and Elizabeth Herkenham  
**Administrative Assistant:** Laraine Michaelides  
**Contact Phone Number:** 518-276-8525  
**Room:** JEC 3210 unless otherwise noted below

## Schedule

<table>
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<th>Time</th>
<th>Monday (7/9)</th>
<th>Tuesday (7/10)</th>
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| 9:00-12:00    | Camp organization and logistics *(Elizabeth Herkenham)*; General introductions & CURENT ERC *(Prof. Joe Chow)*; Introduction to Electric energy systems *(Prof. Meng Wang)* | Energy conversion *(Prof. J. Chow)*; Electricity market *(Stephen Burchett)*; Wind turbines *(Stephen Burchett)* | 9:00 am leave campus – Tour of NYISO Control Center 10 Krey Boulevard - Rensselaer, NY 12144 ~11:30 am return to RPI | Real-time digital simulation and lab visit *(Luigi Vanfretti)*  
Power electronics and Smart Energy Lab *(Ignacio Vieto)*  
Back-up: RPI Energy management system *(Steve Quinn)* | Wind turbine hands-on activity *(REU students)* + Solar Panel session 5 |
| 12:00-1:00    | Lunch                                            | Lunch                                      | Lunch                                    | Lunch                                                | Pizza Lunch: Power Grid game *(REU students)* 12-2pm, JEC classroom |
| 1:00-4:00     | Circuits *(Daniel Douglas & John Reed)* + Solar Panel session 1 *(Daniel Douglas & John Reed)*  
Solar Panel session 2 | Wind Farm investment game *(Burchett)*  
Solar Panel session 2 | Mexican/Colombian power systems *(Profs. Mario Arrietta, UNAM, and Alejandro Zamora, U. Michoacana, Mexico)*  
Solar Panel session 3 | Magnetization and motor experiment *(EPE lab: Prof. Jeff Braunstein)*  
Solar Panel session 4 | Completion/demonstration of Solar Panel project |