



## The Smart Grid Living Lab at UCLA And its Automated Demand Response Program

Speaker, Rajit Gadh, PhD, UCLA

**Wed May 4, 2016 at 6:30 pm**

Location: California Lutheran University, Swenson 101

Meetings are free and open to the public

RSVP at [this link](#)

<http://smartgrid-ucla.eventbrite.com>



The UCLA Smart Grid Energy Research Center (or SMERC) performs research, creates innovations, and demonstrates using the campus as a living lab some advanced wireless/communications, Internet and sense-and-control technologies to enable the development of the next generation of the electric utility grid - The Smart Grid. Our speaker will talk about one of the SMERC's initiatives, the Automated Demand-Response (ADR) technology research program that aims to showcase different levels and modalities of automation in load curtailment, control models and secure messaging schemes leveraging multiple communication technologies and maintaining interoperability between the Smart Grid automation architecture layers.



## Rajit Gadh, PhD

Professor & Director, UCLA - WINMEC & Smart Grid Energy Research Center

Dr. Rajit Gadh is Professor of the Henry Samueli School of Engineering and Applied Science at UCLA, Founder and Director the Smart Grid Energy Research Center or SMERC (<http://smartgrid.ucla.edu>) and

Founder and Director of the UCLA WINMEC Consortium (<http://winmec.ucla.edu>). Dr. Gadh has a Doctorate degree from Carnegie Mellon University (CMU), a Masters from Cornell University and a Bachelor's degree from IIT Kanpur all in engineering. He has taught as a visiting researcher at UC Berkeley, has been an Assistant, Associate and Full Professor at University of Wisconsin-Madison, and was a visiting researcher at Stanford University.

Dr. Gadh's current research interests include modeling and control of Smart Grids, wireless monitoring and control of distribution and consumer-premise power grids, Electric Vehicle aggregation, modeling and control, optimized EV charging under grid and local constraints, Grid-to-vehicle, Vehicle-to-grid and Grid-to-home architectures, automation and home area network for Demand Response, Micro-grid modeling and control, and wireless-sensor and RFID middleware architectures. Dr. Gadh is author of over 150 articles in journals and conference proceedings and holds 4 patents. His team has developed the WINSmartEV™ and WINSmartGrid™ research platforms at UCLA.

Dr. Gadh's research has recently been funded by the following sources: (i) LADWP (in turn funded by DOE) in which UCLA is one of three academic cooperating partners along with USC, and, JPL/Caltech in which DOE funding is roughly \$60M) (ii) Korean Institute for Energy Research (KIER), (iii) EPRI NESCOR Grant (funded by DOE), (iv) California Energy Commission, and (v) the UCLA Smart Grid Industry Partners Program or SMERC-IPP consisting of over a dozen industry members.

He is a Fellow of the American Society of Mechanical Engineers. He has received the National Science Foundation (NSF) CAREER award, NSF Research Initiation Award, and, NSF Lucent Industry Ecology Fellow Award, Society of Automotive Engineers Ralph R. Teetor Educational award, IEEE WTS second best student paper award, ASME Kodak Best Technical Paper award, AT&T Industrial ecology fellow award, Engineering Education Foundation Research Initiation Award, the William Mong Fellowship from University of Hong Kong, and other accolades in his career. He has lectured and given keynote/distinguished addresses worldwide in countries such as Belgium, Brazil, China, France, Germany, India, Ireland, Italy, Spain, Holland, Hong Kong, Japan, S. Korea, Singapore, Taiwan, and, Thailand. Dr. Gadh serves as advisor to a handful of technology-based startups.

**Location:** California Lutheran University  
Swenson 101  
141 Faculty Street, Thousand Oaks  
Pizza/networking starts at 6:30 pm  
Talk starts at 7:00 pm

**Our sponsors**  
California Lutheran University  
IEEE Buenaventura Section



**Directions from Ventura:**

Take the Ventura Freeway 101 South.  
Take Lynn Road Exit, turn left, drive 2.9 miles.  
Lynn Road turns into Olsen Road, drive .9 miles.  
Turn right onto Mountclef Boulevard - the University is on the right  
Turn Right onto Faculty Street  
Park on Faculty Street or adjacent streets.  
Visitors may park on the streets after 7 pm without a permit.  
Important: do not park in the spots marked "Homeowner Parking only".  
Before 7 pm, we recommend to park in the G lot on the southwest corner of Olsen and MountClef and walk to the Swenson building.

**Directions from Los Angeles:**

Take the Ventura Freeway 101 North.  
Take Lynn Road Exit, turn right, drive 2.9 miles.  
Lynn Road turns into Olsen Road, drive .9 miles.  
Turn right onto Mountclef Boulevard - the University is on the right.  
Turn Right onto Faculty Street

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**IEEE-RAS-IA MONTHLY**

**MEETING**

**THIS VEHICLE IS AUTHORIZED TO PARK ON ANY CLU STREET BEFORE 7 PM ON ANY WEDNESDAY EVENING OF THE MONTH IN CONNECTION WITH THE IEEE-ROBOTICS AUTOMATION/INDUSTRIAL APPLICATIONS MEETING ON THE CLU CAMPUS.**

**NAME:** \_\_\_\_\_

**LICENSE PLATE:** \_\_\_\_\_

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**CURRENT DATE:** \_\_\_\_\_

**Fred Miller**  
**Director of Campus Public Safety**  
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