



# Vermont EPSCoR Annual State Meeting



## Adaptation to Climate Change in the Lake Champlain Basin: New Understanding through Complex Systems Modeling (RACC)

August 5, 2014

Hilton Burlington Hotel | Burlington, Vermont



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All events take place in Green Mountain Ballroom

## AM SCHEDULE

7:00 – 8:00 **Registration, Continental Breakfast, Poster set up**

8:00 – 8:15 **Opening Remarks – University of Vermont Leadership**

Judith Van Houten, PhD *Vermont State EPSCoR Director*  
David Rosowsky, Ph.D., P.E., F.ASCE, Provost, *University of Vermont*  
Richard Galbraith, M.D., *Vice President for Research, University of Vermont*

8:15 – 8:30 **NSF EPSCoR Overview and Funding Opportunities**

Denise Barnes, Ph.D., *Section Head, NSF EPSCoR*  
Timothy VanReken, Ph.D., *Program Director, NSF EPSCoR*

8:30 – 9:00 **VT EPSCoR Native American/First Generation Scholarship Presentation**

Patricia Moulton, *Secretary, Vermont Agency of Commerce & Community Development*  
Lindsay Wieland, *Director Vermont EPSCoR Center for Workforce Development and Diversity at Saint Michael's College*  
Scholarship Recipients (TBN)

9:00 – 9:15 **VT EPSCoR Overview**

RACC; NEWrnet; C2 Award (*Improving Connectivity between the University of Vermont and the Vermont State Colleges for*

*STEM Research and Education*) and context of Center for Workforce Development & Diversity (CWDD)

Judith Van Houten, Ph.D., *Vermont State EPSCoR Director*

9:15 – 9:55 **Question 1, Lake Processes, Progress and Next Steps**

Dr. Andrew Schroth, *Research Assistant Professor of Geology (UVM)*

9:55 – 10:35 **Question 2, Watershed Processes, Progress and Next Steps**

Dr. Arne Bomblies, *Assistant Professor, School of Engineering (UVM)*

10:35–10:45 **Break**

10:45–11:25 **Downscaling: Climate Change Projections for the Lake Champlain Basin**

Drs. Jonathan Winter *Assistant Professor, Dartmouth College; Adjunct Associate Research Scientist, Columbia University* and  
Brian Beckage, *Professor, Plant Biology, (UVM)*

11:25–12:05 **Question 3, Policy and Governance, Progress and Next Steps**

Dr. Christopher Koliba, *Professor, Community Development & Applied Economics (UVM)*



Welcome to the 2014 Vermont Experimental Program to Stimulate Competitive Research (VT EPSCoR) Annual State Meeting highlighting the third year of **Research on Adaptation to Climate Change in the Lake Champlain Basin: New Understanding through Complex Systems (RACC)**. We will hear from our talented participants including faculty, graduate students postdoctoral

associates, stakeholders and collaborators and welcome back a few VT EPSCoR Alumni!

We will highlight progress in research, and also workforce development and enhanced diversity through our **VT EPSCoR Center for Workforce Development and Diversity (CWDD) at Saint Michael's College**. A special feature this year is a keynote lunch presentation by **Dr. Lesley-Ann Dupigny-Giroux**, Professor, Geography (UVM) and VT State Climatologist, on Challenges and Lessons Learned in Implementing Climate and Geospatial Understanding in the K-16 Curriculum and Among Diverse Students. Later in the program, we will hear from **Veronica Sosa-Gonzalez**, a CWDD Alumna who is now a PhD candidate at UVM.

We are very pleased that Drs. **Denise Barnes**, Section Head, NSF EPSCoR and **Timothy VanReken**, NSF EPSCoR Program Director, are here to share their knowledge of NSF initiatives and funding trends so that we can learn about ways to sustain our momentum and expand our resources as we strengthen the physical and human infrastructure for research and economic development in Vermont.

Newly appointed Secretary of the Agency of Commerce & Community Development, **Patricia Moulton**, joins us to make awards for the VT EPSCoR Native American and First Generation Scholarships to deserving students majoring in STEM areas. Dr. **Corine Farewell**, Director, Office of Technology Innovations (UVM) and Dr. **Robert Andosca**, Co-founder, President and CEO MicroGen Systems, Inc. will share their perspectives on private sector research and development. Dr. Andosca is a prior recipient of a VT EPSCoR Small Business Innovation Research Phase (0) award.

I encourage you to visit all the posters and watch the Watershed Moments videos on the video screen monitor located by the posters. Several of our graduate students, post-doctoral associates and faculty participating in our communicating science training program produced these informative interviews with the guidance of Bright Blue Eco Media. Three longer videos highlight our stakeholders and the connections we have with their organizations – the Lake Champlain Basin Program, Vermont Agency of Natural Resources and the Nature Conservancy.

I hope that you will take advantage of the information, resources and networking opportunities and enjoy the meeting.

Sincerely,

Judith Van Houten, PhD.  
*University Distinguished Professor | Vermont State EPSCoR Director*



## PM SCHEDULE

### 12:05- 1:15 Lunch with Keynote Address

Dr. Lesley-Ann Dupigny-Giroux, Professor, Dept. of Geography (UVM) and VT State Climatologist: Challenges and Lessons Learned in Implementing Climate and Geospatial Understanding in the K-16 Curriculum and Among Diverse Students

12:35 p.m. Keynote Address begins

### 1:15 Break

### 1:30- 2:10 Integrated Assessment Model (IAM)

Dr. Asim Zia, Associate Professor, Community Development & Applied Economics (UVM)

### 2:10 – 2:50 VT EPSCoR Center for Workforce Development (CWDD) & Diversity at Saint Michael's College – progress in Year 3 and projections for next year

Lindsay Wieland, Director CWDD, Dr. Declan McCabe, Associate Professor of Biology, Saint Michael's College and Veronica Sosa – Gonzalaz, PhD candidate, Rubenstein (UVM); CWDD, Streams Intern Alumna

### 2:50 – 3:30 Private Sector SBIR Phase (0)

Dr. Patrick Clemins, Cyber Specialist, VT EPSCoR (UVM) Moderator

Dr. Corine Farewell, Director, Office of Technology Innovations (UVM)

Dr. Robert Andosca, Co-founder, President and CEO MicroGen Systems, Inc. and prior VT EPSCoR SBIR Phase (0) Awardee

Please take 5 minutes to complete you survey!

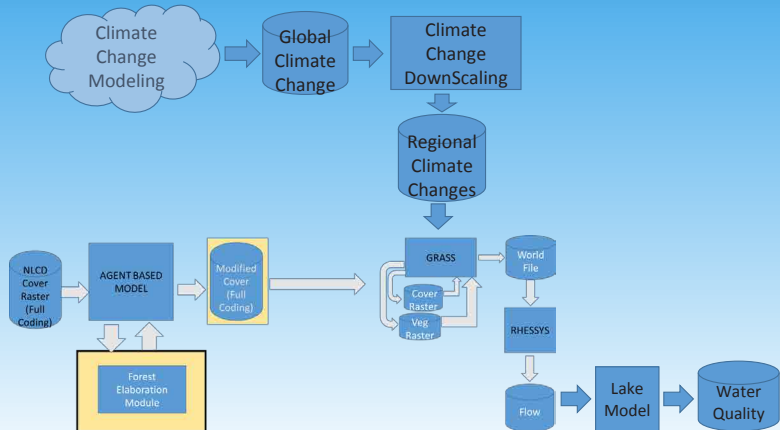
### 3:30 – 5:30 Posters and Networking (Mezzanine)

Hors d'oeuvres and light refreshments

### 5:30 Annual Meeting and Poster session concludes

Dinner on your own

## Cascading IAM Overview





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