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- James W. Lark III
- Amy LaViers
- Gerard P. Learmonth, Sr.
- Gregory C. Lewin
- Garrick E. Louis
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- Michael C. Smith
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## Garrick E. Louis



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**Degrees:**  
 Ph.D, Engineering & Public Policy\_Carnegie Mellon University  
 MSc., Chemical Engineering\_Rensselaer Polytechnic Institute  
 BSc., Chemical Engineering\_Howard University

### Biography:

Garrick E. Louis has served on the faculty since 1997. He was an AAAS Science & Policy Fellow at the Environmental Protection Agency in 2006-2007. He received the Presidential Early Career Award for Scientists and Engineers in 2000. He was a postdoctoral fellow in Engineering & Public Policy at Carnegie Mellon University, a Warren Weaver Fellow at the Rockefeller Foundation and a member of the teaching faculty at the State University of New York before coming to the University of Virginia.

### Research Interests:

- **The Small Infrastructure and Development Center (The SID) Center**
- Sustainable Infrastructure
- Environmental Systems Engineering
  - Drinking Water Supply, Wastewater & Sewage Treatment, Solid Waste Management
- Appropriate Technology Acquisition using Capacity Factor Analysis [Water and Health in Limpopo](#)
- Engineering for Development
  - Design for Development Lab, Engineering Students Without Borders

### Research Groups:

- [Systems Integration](#)

### Research Centers:

### Representative Publications:

1. Demarest J, Pagsuyoin S, Learmonth G, Smith J, Mellor J, Louis G, Boissevain J, Botchwey N, Firehock E, Guerrant R, Netshandama V, Samie A, Bessong P, and Dillingham R (2011). Development of a Spatial and Temporal Agent-based Model for Studying Water and Health Relationships: the Case Study of Two Villages in Limpopo Province, South Africa. *Submitted to: Journal of Artificial Societies and Social Simulation, December 2011.*
2. Pagsuyoin S, Learmonth G, Smith J, Demarest J, Mellor J, Louis G, Boissevain J, Botchwey N, Firehock K, Guerrant R, Netshandama, V, Samie, A, Beesong, P, and Dillingham R (2011). Novel Application of Agent-Based Modeling in Evaluating Global Health Programmes. *Submitted to: International Journal of Epidemiology, December 2011.*
3. Cunningham, T, Botchwey N, Dillingham R, Netshandama V, Boissevan J, Firehock K, Learmonth G, and Louis G. (2009). Understanding Water Perceptions in Limpopo Province: A Photovoice Community Assessment. *Environmental Pollution and Public Health, IEEE.*
4. Cunningham, T, Botchwey N, Dillingham R, Netshandama V, Boissevan J, Firehock K, Learmonth G, and Louis G. (2009). Understanding Water Perceptions in Limpopo Province: A Photovoice Community Assessment. *Environmental Pollution and Public Health, IEEE.*

### Other Activities:

- The Water & Health in Limpopo Project - with University of Venda Rainwater Harvesting in Rajasthan - with Sustainable Innovations Inc, Aakash Ganga, and Birla Institute of Technology in Pliani
- Water and Sanitation Planning in Siuna, Nicaragua - with Bridges to Community and Building Goodness

# Links for Faculty

Foundation

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