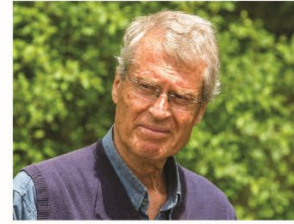




**Dr. Beth Parker, Director  
Professor, School of Engineering  
Director of Morwick G360  
University of Guelph**



**Dr. Rick Devlin, Co-Director  
Professor, Department of Geology  
Kansas University**



**Dr. John Cherry, Director Emeritus  
Adjunct Professor, School of Engineering  
University of Guelph  
Distinguished Professor Emeritus  
University of Waterloo**

# University Consortium

## For Field-Focused Groundwater Research

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The University Consortium for Field-Focused Groundwater Research (the "Consortium") was established in 1987, with the first annual Consortium Meeting taking place in 1988. The Consortium is unique in its combination of a strong field focus, intensive collaborations with researchers and practitioners around the globe, and frequent interactions with the corporate sponsors.

These combined funds are used to conduct field research at actual industrial sites, gathering real-world data through field and laboratory experiments and mathematical modeling. Our overarching goals are to inform remediation and mitigation efforts and improve the decision-making of groundwater practitioners by developing and using novel methods and tools to advance the science surrounding characterizing, long-term monitoring, conceptualizing, and remediating real-world sites.

Consortium Sponsors gain access to the results of the Consortium Program, and the Consortium hosts a 3-day event at the University of Guelph in June and a special topic focus meeting in Denver in October each year. The Consortium also communicates with its corporate sponsors, the regulatory community, and the groundwater professional community through other meetings, symposia, conferences, and short courses.

### OUR APPROACH

Each Consortium Sponsor provides a cash contribution of \$200K annually. Consortium principal investigators leverage these contributions with additional private and public grants for a combined value of more than \$10 million per year; this approach to funding ensures the research remains unbiased.

**38th** **37** **Principal** **>150** **>40**  
**Year** **Investigators** **Published/Year** **HQP Graduates/Year**

### OUR MISSION

Conduct world-class credible research to serve the needs of both society and industry, contribute to the advancement of groundwater contamination science, while focusing on real-world problems at contaminated sites.

### SPONSOR BENEFITS

- ✓ **Technical Expertise:** Access to Consortium principal investigators for consulting at sponsor sites; Opportunity for research-related field work at reduced rates; Access to the Consortium's network of experts.
- ✓ **Information Dissemination:** Access to cutting-edge research often before it is even published.
- ✓ **Education:** Opportunities to learn from world-class educators, either by having them come to sponsor sites or by teaching workshops.
- ✓ **Networking:** Other industrial consortium sponsors often have lessons learned from implementing remediation strategies or technologies at their site.
- ✓ **Credibility:** Internationally respected science published in peer reviewed journals.

## THE UNIVERSITY CONSORTIUM ADVANCES METHODS AND RELEVANT SCIENCE FOR:

1. Site Characterization Methodologies in a Process Based Framework
2. Off-Site Liability from Contaminant Impacts
3. Methodologies for Improved Data Acquisition, Storage & Analysis
4. Monitoring and Sensing Technologies & Strategies
5. Robust Methodology for Conceptual Site Modeling
6. Develop GCMs for Diverse Contaminant & Hydrogeologic Systems
7. Transport, Fate and Remediation of Emerging Contaminants
8. Groundwater Resource Protection
9. In-Situ Remediation Technology Assessment
10. Enhanced Attenuation & Long-term Site Management
11. Life-cycle Cost / Benefit Analysis for Source & Plume Management
12. Knowledge Translation & Transfer

## PRINCIPAL INVESTIGATORS

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Ferdinando Manna  
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### University of Bahia:

Haki Klammler

### UQAM:

Violaine Ponsin

The  
UNIVERSITY  
CONSORTIUM

## CURRENT SPONSORS

Dow Chemical (>1988)  
Boeing (>1993)  
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Hydrite Chemical (>2003)  
BP (>2006)  
ExxonMobil/Esso (>2010)  
Shell Global Solutions (>2010)  
Blue Triton Brands (>2015)  
Chemours (>2017)  
Total (>2018)  
Corteva (>2022)

## COLLABORATING ORGANIZATIONS

### Academic

Lund University  
McMaster University  
Missouri Institute of Sci & Tech  
Rutgers University, Newark  
Stanford University  
SUSTech (China)  
UC Santa Cruz  
Université Laval  
University of Barcelona  
University of Calgary  
University of Hong Kong  
University of Lausanne  
University of Rome  
USP, Sao Paulo

### Government and Municipalities

City of Guelph  
Geological Survey of Canada (GSC)  
Geological Survey of Sweden (SGU)  
Minnesota Geological Survey  
NSERC  
Government of the Northwest Territories  
Yukon Government  
USGS  
U.S. DOE  
U.S. DOD (AFCEC, NAVFAC)

## PARTNERS

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