

**WILLIAM D. GORAN**

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**Professional Preparation:**

- B.A. University of Illinois (English)
- M.S. University of Illinois (Geography)
- M.E.E. University of Illinois (Soil Science)

**Current Positions:**

William Goran serves as the: **Strategic Planner** for emerging research and development programs in environmental quality, energy and infrastructure research and engineering (EQ/I) and geospatial research and engineering (GRE) and for the Construction Engineering Research Laboratory, and as the **Director, Center for the Advancement of Sustainability Innovations (CASI)**. As CASI director, he plans and coordinates projects relating to a systems understanding of energy, water and waste in military operations, sustainable planning and facility design, sustainable acquisition, and the sustainable use of military lands. Mr. Goran also co-chairs a federal inter-agency forum on climate change impacts and adaptations, and he represents the Department of Defense on the 3<sup>rd</sup> National Climate Assessment. He also serves on the advisory/editorial boards of the Journal of Conservation Planning, Geoworld, the Community Surface Dynamics Modeling System (NSF funded center), the Army Research Office Environmental Science's program, the Strategic Environmental Research and Development Program (SERDP), and he is an adjunct faculty member with the University of Illinois Geography Department.

**Geospatial Technology Experience:**

During the 1980s, Mr. Goran led the team that designed, developed and fielded the GIS software capabilities entitled Geographical Resources Analysis Support System (GRASS). GRASS was the first GIS environment implemented by numerous federal agencies, and Mr. Goran managed an inter-agency agreement that included the Department of Defense, Department of Interior, Department of Agriculture, and other federal agencies to coordinate updates and support of GRASS. GRASS was transitioned to academic partners in the mid-1990s, and is still in use today across the globe, and can be accessed through the Open Source Geospatial Foundation at: <http://grass.fbk.eu/>, and referenced in Wikipedia at: [http://en.wikipedia.org/wiki/GRASS\\_GIS](http://en.wikipedia.org/wiki/GRASS_GIS). During the 1990s, Mr. Goran also established the Open GRASS Foundation to provide a framework of collaboration for organizations beyond the U.S. federal government, and later he helped transition this organization to its current status as the Open Geospatial Consortium (OGC) at: <http://www.opengeospatial.org/>. He served on an advisory board for this consortium for several years, and in 2003 was recognized by OGC Board of Directors for "playing a major role in germinating the concepts that led to creation of OpenGIS."

**Previous Professional Positions:**

- Acting Director, CERL, Sept 2000–May 2001

- Technical Director, Military Land Management, CERL, 1997–2000
- Chief, Land Management Laboratory, CERL, 1996–1997
- Chief, Environmental Sustainment Laboratory, CERL, 1993–1996
- Acting Chief, Environmental Compliance Division, CERL, 1992–1993
- Team Leader, Spatial Analysis Team, CERL, 1989–1992
- Investigator, Environmental Compliance Team, CERL, 1984–1989
- Research Associate, University of Illinois, Geography Department, 1977–1984

**Selected Publications:*****Tradeoffs for Renewable Energy Projects, Environmental, Planning and Mission***

***Considerations***, with Thomas S. Smith, Roch A. Ducey and William J. Stein, ERDC/CERL SR-10-2, April 2010.

*Incorporating Land Use Change into Army Basing Analysis*, ***Military Operations Research Journal***, with COL William Tarantino (RET) and Brad J. Boesdorfer, Vol 14, No 1, 2009, pages 1–16, June 2009.

“Fort Future”: Preserving Room to Maneuver, ***The Military Engineer***, with James Westervelt, March/April 2003.

***Landscape Erosion and Evolution Modeling***, edited by Russell Harmon and William W. Doe, Chapter 17: *Envisioning a Future Framework for Managing Land and Water Resources*, by William D. Goran and Jeffrey P. Holland, 2001, Kluwer Academic.

***A History of Geographic Information Systems***, edited by Timothy W. Forsman, Chapter entitled: *GIS Takes Root in the Department of Defense*, by William D. Goran, Prentice Hall, 1998.

*What’s the Appropriate Role of Public Domain GIS Software?* ***GIS World***, pages 72–77, April 1992.

*An Automated, Objective procedure for Selecting Field Sample Sites*, with Steven D. Warren, Mark O. Johnson and Victor E. Diersing, ***Photogrammetric Engineering and Remote Sensing***, Vol. 56, No 2, March 1990.

*An Erosion-Based Land Classification System for Military Installations*, with Steven D. Warren, Victor E. Diersing and Pamela J. Thompson, ***Journal of Environmental Management***, 1989, Volume 13, No.2.

***Trails of the Guadalupes, A Guidebook to Guadalupe Mountains National Park***, with Don Kurtz, Environmental Associates, 1978 (1982, 1986, 1992, 1997, 2008).