OUR LEGACY

Dam Safety is a 5000-year-old profession.

Some of the earliest known civilizations in the world built dams in the Euphrates, Tigris, Nile, and Indus River Valleys. Some hydraulic structures can be traced back even earlier to the Stone Age. Although among the oldest historic forms of man-made infrastructure, dams continue to provide for modern society’s basic needs.

WHO WE ARE

The diverse professionals that make up the field of dam safety span a broad range of specialties, including:
- Civil-Hydraulics
- Civil-Geotechnical
- Civil-Structural
- Hydrology
- Construction
- Project Management
- Ecology
- Risk Analysis
- Computer Programming
- Geo-spatial (GIS)
- Policy
- Infrastructure Planning & Management

WHAT WE DO

Professionals in the field of dam safety ensure the continued benefits and safe operation of dams and levees in all 50 states and around the world. Our work involves:
- designing, constructing, operating, maintaining, and regulating dam and levee infrastructure;
- conducting research and testing;
- teaching, presenting, and publishing; and
- overseeing state and federal policies and programs.

OUR OPPORTUNITIES

- Participate in design teams for multi-million dollar projects, anywhere in the world.
- Join in the rehabilitation and upgrade of our national infrastructure.
- Improve environmental and public safety by playing a part in designing important, safe dam modification and removal projects across the U.S.
- Contribute to the shaping of smart national policies on dam and levee safety toward a future where these structures safely provide their intended benefits.

www.damsafety.org
FACULTY RESOURCES
Available from the Association of State Dam Safety Officials (ASDSO) – www.damsafety.org

ASDSO can help you inspire the next generation of dam safety specialists. We offer a variety of faculty teaching aids and student support:

- Speakers Bureau
- Assistance with capstone course development
- Webinars (each approximately 90-120 minutes)
- "Expert Video Series"
- Repository of dam and levee safety research materials, including an on-line bibliographic database
- Student scholarships and paper competitions
- Access to experts in virtually all topics related to dam and levee safety and engineering

Example Webinar topics:
- Fundamentals of Hydrology
- Introduction to Hydraulics for Dam Safety
- Pitfalls in Quality Control Processes for Compacted Earth Fill
- Geotechnical Review of Embankment Dam Projects
- Risk Management
- Roller Compacted Concrete Design and Construction for Water Control Structures
- Filter Design History and a One-Step Design Process
- Guidelines for Assigning Erodibility Parameters to Soil Horizons for SITES Analyses
- Estimating Permeability Using Empirical Methods

Example "Expert Video Series" topics:
- Dr. Ralph B. Peck, Seepage and Fiping
- Dr. Danny L. Fread, Dam Breach and Flood Wave Modeling
- Dr. Don U. Deere, Dam Foundations
- Dr. I.M. Idriss, Behavior of Embankment Dams During Earthquakes
- John Lowe, Filters and Sinkholes/Rapid Drawdown Stability
- James K. Mitchell, Ground Improvements for Dam Safety

"The most successful practitioners of the art (of engineering—) will maintain a healthy respect for the ability of Nature to produce surprises."

-Dr. Ralph Peck

Contact ASDSO for more information
info@damsafety.org or 859.257.5140

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Visit the Student / Faculty pages at www.damsafety.org