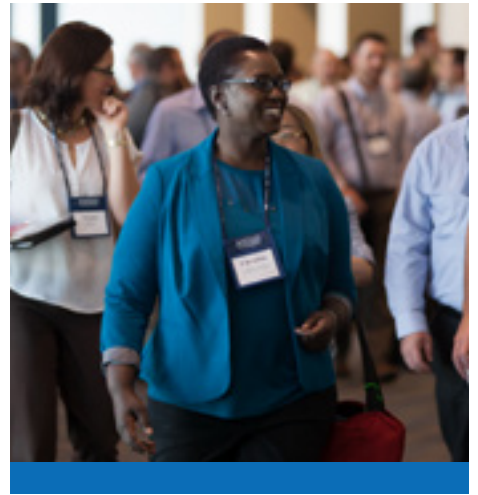




Association of State Dam Safety Officials

Annual Report
2016-2017





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TO OUR MEMBERS

Lori C. Spragens, Executive Director

This report highlights Fiscal 2017 projects. Please take some time to review the projects completed in 2016-17 highlighted in this report.

This is the final year of our 5-Year Strategic Plan that started in July of 2012. Over the last 5 years, the association has averaged 150 projects per year. And our completion grade is a solid "B." We're very proud of our outreach to dam owners and students. We've held 38 dam owner workshops and were able to award a scholarship every year. Communications was a big element of this plan. The team that created the strategic plan was very astute when it suggested that ASDSO do a communications audit, create a communications plan and provide media training. The training program continues to grow. In the past 5 years, we've trained over 13,000 people at conferences, short courses and webinars. One of our long-standing legislative goals was finally achieved when the dam rehabilitation funding program was passed in 2016. Our primary goal to support state dam safety programs shows in some positive changes. Overall, statistics show the completion of emergency action plans are up by 10% to 79% in 5 years. State budgets have increased slightly.

Fiscally, ASDSO is sound and, in the past 5 years, has purchased property for our headquarters while managing a long-term investment strategy to grow our reserves.

Highlights of this past year would not be complete without calling attention to the "right turn" the staff and leadership took during the weeks following the Oroville Spillway incident in February 2017. Working to assist with communication during the event and the forensic team after was an important alteration to the annual action plan; one to which everyone, from leadership to staff, was whole-heartedly committed.

Your membership in ASDSO enables the association to continue to fulfill our mission. Your dues and donations help to keep everyone connected, implement strong training programs, deliver our much-admired technical journal, shape future leaders through student outreach, advocate for strong laws and policies; the list goes on and on. Thank you! Finally, I want to tell all of you, our members, how glad we are to have you as a part of ASDSO, to support our mission, to advance your career and education, and to gain friendships. It has been a pleasure serving you.



PRESIDENT'S STATEMENT

Dusty Myers, P.E., President

It is my privilege to present to you the Fiscal Year 2017 Annual Report for the Association of State Dam Safety Officials. This report represents the work accomplished by the association from July 1, 2016 to June 30, 2017. I encourage you to take some time to read the full report and learn about all the projects the association has undertaken to improve dam safety this year. One of the biggest accomplishments over this year was the completion of a new strategic plan that will guide the association over the next 5 years: but there are many more. As you read the report you might wonder; how did we accomplish so much? That takes a passionate group of people willing to serve. The association has been fortunate to have such a group in our top-notch executive director, staff, volunteers, donors, members, and others who have made this possible. To all those people who have worked over this year and continue to work to make this association a leader in the dam safety community, I can't say thank you enough.

Our members and our partners who come from state and federal government, other associations, and the private sector are our greatest asset. Through the hard work and dedication of these members and partners we have worked to carry out our mission. If you haven't been active in the association in the past or are looking to re-engage we encourage you to look for opportunities to join us in our mission to "Improve the condition and safety of dams through education, support for state dam safety programs and fostering a unified dam safety community." In closing, I would like to say thank you for everything you do to improve dam safety. And after you finish reading this report come join us on our mission!

LEADERSHIP

Board of Directors

Officers:

President: Dusty Myers, P.E. – MS
President-Elect: Jon Garton, P.E. – IA
Treasurer: Roger Adams, P.E. – PA
Secretary: Hal Van Aller, P.E. – MD
Past President: Jim Pawloski, P.E. – MI

Regional Representatives:

Northeast:

Ann Kuzyk, P.E. – CT
 Roger Adams, P.E. – PA
 Alon Dornitz, P.E. – NY

Southeast:

Trevor Timberlake, P.E., CFM – AR
 Brad Cole, P.E. – NC
 Tom Woosley, P.E. – GA

Midwest:

Ken Smith, P.E. – IN
 Jim Pawloski, P.E. – MI

West:

Chuck Thompson, P.E. – NM
 Bill McCormick, P.E., P.G. – CO
 Nathan Graves, P.E. – WY
 Yohanes Sugeng, P.E. – OK

Advisory Committee Representatives:

Paul G. Schweiger, P.E.
 Advisory Committee Chair
 Gannett Fleming, Inc.

Gregory S. Paxson, P.E.
 Advisory Committee Vice-Chair
 Schnabel Engineering

Board Members Outgoing, End of Fiscal Year 2016:

Jim Gallagher – New Hampshire
 Art Sengupta – Florida
 Shane Cook – North Carolina
 Charlie Cobb – Alaska
 Michele Lemieux – Montana

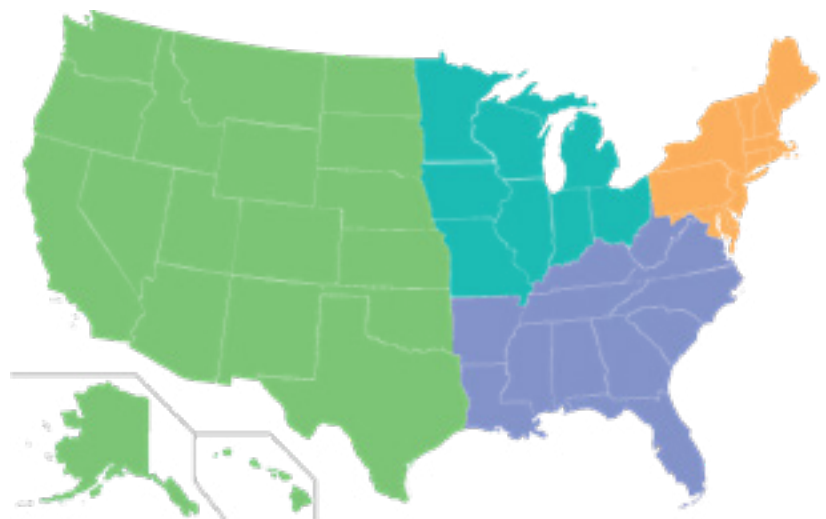
Board Members Outgoing, During Fiscal Year 2017:

Paul Simon – Missouri
 Tom Woosley – Georgia
 Trevor Timberlake – Arkansas



Back Row Left to Right: Trevor Timberlake (AR), Brad Cole (NC), Hal Van Aller (MD), Tom Woosley (GA), Bill McCormick (CO), Chuck Thompson (NM), Nathan Graves (WY), Yohanes Sugeng (OK), Ken Smith (IN), Alon Dornitz (NY).

Front Row Left to Right: Lori Spragens (Director), Jim Pawloski (MI), Dusty Myers (MS), Jon Garton (IA), Roger Adams (PA), Ann Kuzyk (CT)



ASDSO Regions: Green - West, Teal / Blue - Midwest, Orange - Northeast, Periwinkle / Purple - Southeast

LEADERSHIP

State Voting Representatives



ALABAMA - J. Brian Atkins, AL Department of Economic and Community Affairs

ALASKA - Charles F. Cobb, AK Department of Natural Resources

ARIZONA - Ravi Murthy, AZ Department of Water Resources

ARKANSAS - Trevor Timberlake, AR Natural Resources Commission

CALIFORNIA - Sharon K. Tapia, CA Department of Water Resources *

COLORADO - Kallie Bauer, CO Division of Water Resources

CONNECTICUT - Arthur P. Christian, II, CT Department of Environmental Protection

DELAWARE - Janice Shute, DE Department of Natural Resources & Environmental Control *

FLORIDA - Arijeet Sengupta, FL Department of Environmental Protection

GEORGIA - D. Thomas Woosley, GA Department of Natural Resources

HAWAII - Edwin Matsuda, HI Department of Land & Natural Resources

IDAHO - John A. Falk, ID Department of Water Resources

ILLINOIS - Paul Mauer, Jr., IL Department of Natural Resources

INDIANA - Kenneth E. Smith, IN Department of Natural Resources

IOWA - Lori McDaniel, IA Department of Natural Resources

KANSAS - Kimberly Hunninghake, KS Department of Agriculture

KENTUCKY - Ron Gruzesky, KY Division of Water

LOUISIANA - Edward Knight, LA Department of Transportation & Development

MAINE - Tony Fletcher, ME Emergency Management Agency

MARYLAND - Harald W. Van Aller, MD Department of the Environment

MASSACHUSETTS - William C. Salomaa, MA Department of Conservation & Recreation

MICHIGAN - Byron Lane, MI Department of Environmental Quality

MINNESOTA - Jason Boyle, MN Department of Natural Resources

MISSISSIPPI - Dusty Myers, MS Department of Environmental Quality

MISSOURI - Ryan Stack, MO Department of Natural Resources

MONTANA - Michele Lemieux, MT Department of Natural Resources & Conservation

NEBRASKA - Tim Gokie, NE Department of Natural Resources

NEVADA - Edmund Quaglieri, NV Division of Water Resources

NEW HAMPSHIRE - James W. Gallagher, NH Department of Environmental Services

NEW JERSEY - John H. Moyle, NJ Department of Environmental Protection

NEW MEXICO - Charles Thompson, NM Office of the State Engineer

NEW YORK - Alon Dominitz, NY Department of Environmental Conservation

TENNESSEE - Lyle Bentley, TN Department of Environment & Conservation

NORTH CAROLINA - William E. Vinson, NC Department of Environmental & Natural Resources

TEXAS - Warren D. Samuelson, TX Commission on Environmental Quality

NORTH DAKOTA - Karen Goff, ND State Water Commission

UTAH - David Marble, Utah Division of Water Rights

OHIO - Rodney Tornes, OH Department of Natural Resources

VERMONT - Benjamin Green, VT Department of Environmental Conservation *

OKLAHOMA - Yohanes Sugeng, OK Water Resources Board

VIRGINIA - David Dowling, VA Department of Conservation & Recreation

OREGON - Keith Mills, OR Water Resources Department

WASHINGTON - Joe Witczak, WA State Department of Ecology *

PENNSYLVANIA - Roger P. Adams, PA Department of Environmental Protection

WEST VIRGINIA - Delbert G. Shriver, WV Department of Environmental Protection

PUERTO RICO - José M. Bermúdez Díaz, PR Electric Power Authority *

RHODE ISLAND - Paul Guglielmino, RI Department of Environmental Management

WISCONSIN - William Sturtevant, WI Department of Natural Resources

SOUTH CAROLINA - Jill C. Stewart, SC Department of Health & Environmental Control

WYOMING - Nathan Graves, WY State Engineer's Office

SOUTH DAKOTA - Timothy G. Schaal, SD Department of Environment & Natural Resources

* New State Representative during FY17

Committee Management

During FY17, the ASDSO Board of Directors performed a comprehensive review of ASDSO's committee structure looking at the current ability to engage members and complete projects. First, the Board reviewed committee charters and made alterations to a few standing committees to clarify their missions. Second, the Board worked on the idea of interest groups in lieu of some committees. As a result, the following changes were implemented:

- The Public Safety Around Dams Committee, chaired by Paul Schweiger, was converted from a sub-committee of the Dam Owner Outreach Committee to a standing committee. Its mission is to improve safety around dams, especially low-head dams.
- The Tailings Dam Regulatory Committee, chaired by Charlie Cobb, was formed to lead implementation of tailings dam related aspects of the ASDSO Strategic Plan, including the development of guidance for state programs on the unique aspects of tailings dam regulation, technical aspects of tailings dam design, operation and closure that affect safety, and support state programs that regulate tailings dams.
- The Young Professional Interest Group was formed to engage members under 40 in the dam safety community through ASDSO participation and service. This group, co-chaired by Kate Aulenbach and Greg Richards, will work on special projects and initiatives designed to engage young professionals by connecting them with other young professionals in the field, providing professional development needs, and more.
- As of FY18, the Legislative Advocacy Committee will become an interest group headed by a tier of advisors, including former committee leaders and the ASDSO president, who will create an annual action plan. ASDSO will recruit key contacts to advocate on specific state and federal topics and issues.
- The Levee Safety Committee was put in abeyance. With the advent of the US Levee Safety Coalition, of which ASDSO is a member, the need for an ASDSO standing committee is reduced.
- The Security and Risk Mitigation for Critical Infrastructure Dams Committee was put in abeyance, as all interested volunteers are already serving on the DHS Dams Sector Coordinating Council. The Board agreed that this still would be a good topic for a new interest group.

Committee Members

* CHAIR

** VICE-CHAIR

Advisory Committee (AdCom)

*Paul Schweiger - Gannett Fleming – PA

**Greg Paxson - Schnabel – PA

Scott Arends - Hanson Professional Services - IL

Terry Arnold - AECOM - CO

Randy Bass - Schnabel - GA

Bill Bingham - PA

Bob Bowers- O'Brien & Gere - PA

Don Bruce - Geosystems - PA

Jack Byers - Byers Group - CO

John Cima - Schnabel - VA

Bob Dalton - Vasconcelles Engr. Corp. - IL

Eric Ditchey - McCormick Taylor - NJ

Dave Eichelberger - Christopher B. Burke Engr. - IN

Keith Ferguson - HDR Engr. - CO

Craig Findlay - Findlay Engr. - ME

John France - AECOM - CO

Steve Fry - Steve Fry Consulting - WA

Joe Kula - ARCADIS - MD

Marty McCann – Natl. Performance of Dams Prog. - CA

Art Miller - AECOM - PA

Carl Montana - CJM Engr. - NJ

Karl Myers - Piedmont Geotech. Consultants - GA

Mishelle Noble-Blair - Fairfax Water - VA
Tony Nokovich - Pennsylvania American Water - PA

Jeff Powers - Hazen & Sawyer - GA

John Rutledge - Freese & Nichols - TX

Steve Snider - O'Brien & Gere - NY

Jason Thom - DOWL - MT

Ed Tomlinson - Atmospheric Science Consultants - CO

Steve Verigin - GEI - CA

Jim Weldon - Jim Weldon & Assoc. - CO

Annual Conference Program Committee

*John Ritchey - NJ DEP

Eric Ditchey - McCormick Taylor - NJ

Alon Dominitz - NY DEC

John France - AECOM - CO

Nathaniel Gee - USBR - NV

Garrett Jackson - CO DWR

Matt Lindon - Loughlin Water Assoc. - UT

Greg Paxson - Schnabel - PA

Bill Sturtevant - WI DNR

Annual Awards Committee

*Jim Pawloski - MI DEQ

Scott Arends - Hanson Professional Services - IL

Jason Campbell - Dynegy - IL

Bob Dalton - Vasconcelles Engr. Corp - IL

(CONT.)

Dennis Dickey - Gannett Fleming - PA

Bob Finucane - VT

Jon Garton - IA DNR

Rob Martinez - USBR - NV

Mishelle Noble-Blair - Fairfax Water – VA

Karl Myers - Piedmont Geotech.

Consultants - GA

Tony Nokovich - Pennsylvania American Water - PA

Committee on Education Outreach (CEO)

*Erin Gleason - Denver Water – CO

Nick Agnoli - FERC - NY

Jeff Bertel - Reitz Jens - MO

Clint Brown - Engr. Analytics - CO

Garrett Jackson- CO DWR

Jon Keeling - Stantec - KY

Matt Marchisello - Aqua

Pennsylvania - PA

Marty McCann – Natl. Performance of Dams Prog. – CA

Bill McCormick - CO DWR

Art Miller - AECOM - PA

Debra Miller - Miller Geotechnical - CO

Carl Montana - CJM Engr. - NJ

John Moyle - NJ DEP

Peter Nicholson – U. of Hawaii

Ken Smith - IN DNR

Keith Thole - USACE – MO

Bruce Tschantz – U. of Tennessee – Chair Emeritus

Constitution & Bylaws Committee

*Charlie Cobb - AK DNR

Jon Garton - IA DNR

Jim Gallagher - NH DES

Glenn Lloyd - MO DNR

Brian Long - PA

David Marble – UT DWR

John Moyle - NJ DEP

Elaine Pacheco - Pacheco A&E Consultants - NM

Jon Phillippe – J.T. Phillippe, P.E., LS - VA

Ken Smith- IN DNR

Council for Safe Dams Executive

Committee (CSD)

* Eric Ditchey - McCormick Taylor – NJ

Chris Adams - Civil Dynamics - NJ

Roger Adams - PA DEP

David Burd - Merrill Creek Reservoir - NJ

Leo Coakley - Hatch Mott MacDonald - NJ

Michael Conway - First Capital Engr. - PA

Dennis Dickey - Gannett Fleming - PA

Tony Fernandes - PA

Tom Fitzgerald - Schnabel - NC

Chris Hager - Langan Engr. & Env. Services - PA

John Harrison - Schnabel - PA

(CONT.)

Rodney Holderbaum - Gannett Fleming -PA

Richard Horvath - PA

Joe Kula - ARCADIS – MD

John Moyle - NJ DEP

Keith Pytlik - NJ

John Ritchey - NJ DE

Dam Design & Construction Committee

*Jeremy Franz - CO DWR

*Joe Monroe - Schnabel - GA

Leslie Boyd - Freese & Nichols - TX

Charlie Cobb - AK DNR

Gary Dale - NY DEC

Benjamin Doerge - USDA NRCS - TX

Nathan Graves - WY State Engineer's Ofc.

Dennis Hanneman - USBR - CO

Frank Immel - Global Diving & Salvage -WA

Dusty Myers - MS DEQ

Mark Ogden – ASDSO - OH

Mark Pabst - CO

Edward Perez - FERC - OR

Jason Thom - DOWL - MT

Charles Thompson - NM State Engineer's Ofc.

Jennifer Williams - AECOM - CO

Dam Failures & Incidents Committee

(DFIC)

* Mark Baker – Natl. Park Service – CO

Irfan Alvi - Alvi Assoc. - MD

Jacob Davis - USACE - DC

Alon Dominitz - NY DEC

Jon Garton - IA DNR

Nathaniel Gee - USBR - NV

Wayne King - FERC - GA

Lee Mauney - BIA – CO

Dusty Myers – MS DEQ

Mark Ogden – ASDSO - OH

Jim Pawloski - MI DEQ

Greg Richards - Gannett Fleming - PA

Tom Roberts - VA DCR

Lee Wooten - GEI - MA

DFIC Technical Advisors

Bill Allerton - VA

Scott Arends - Hanson Professional Services - IL

Clint Brown - Engineering Analytics - CO
Larry Caldwell - OK Conservation Commission

Bob Clay - MO

Steve Durgin - USDA NRCS - DC

Wayne Graham - CO

Chris Karam - GEI - ME

George Kelley - Freese & Nichols - GA

John Lessley - S & ME - SC

Dan Mahoney - DJM - MD

Jon Pittman - Schnabel - NC

(CONT.)

Pat Regan - Framatome ANP DE&S - CA
 Ryan Schoolmeesters - CO DWR
 Neil Schwanz - USACE - MN
 Paul Simon - USACE - MO
 Peter Spangenberg - CT DEP
 Lucas Trumble - MI DEQ

DFIC Damfailures.org Subcommittee

*Greg Richards - Gannett Fleming – PA
 Irfan Alvi - Alvi Assoc. - MD
 Mark Baker – Natl. Park Service - CO
 Alon Dominitz - NY DEC
 Nathaniel Gee - USBR - NV
 Doug Johnson - FERC - OR
 Wayne King - FERC - GA
 Lee Mauney - BIA - CO
 Tom Roberts - VA DCR
 David Sykora- Exponent - MA
 Everett Taylor - Utah DWR
 Travis Tutka - USACE - IL
 John Wolfhope - Freese & Nichols - TX

DFIC Database of Failures & Incidents Subcommittee

Scott Arends - Hanson Professional Services - IL
 Alon Dominitz - NY DEC
 Steve Durgin - USDA NRCS - DC
 Doug Johnson - FERC – OR
 Dusty Myers – MS DEQ

DFIC Decade Dam Failures Team

*Dusty Myers – MS DEQ
 John Atkins - MS DEQ
 Nathaniel Gee - USBR - NV
 Wayne King - FERC - GA
 Jon Pittman - Schnabel - NC
 Tom Roberts - VA DCR
 David Sykora - Exponent - MA
 Everett Taylor - UT DWR

DFIC Electrical/Mechanical Incidents Team

*Rick Schultz - USACE – KY
 Mark Baker – Natl. Park Service – CO
 Kyle Converse – USBR - CO
 Mark Ogden – ASDSO - OH

DFIC Feasibility of Establishing a Natl. Post-Failure Investigation Program Subcommittee

*Mark Baker - Natl. Park Service – CO
 Irfan Alvi - Alvi Assoc. - MD
 Steve Durgin - USDA NRCS - DC
 Doug Johnson - FERC - OR
 Wayne King - FERC - GA
 Lee Mauney - Bureau of Indian Affairs - CO
 Dusty Myers - MS DEQ
 Jim Pawloski - MI DEQ
 Jon Pittman - Schnabel - NC
 Tom Roberts - VA DCR

(CONT.)

Lucas Trumble - MI DEQ
 Lee Wooten - GEI - MA

Dam Owner Outreach Committee

*Jason Campbell - Dynege – IL
 Richard DeBold - RWD Engr. - ME
 Dennis Dickey - Gannett Fleming - PA
 Michele Lemieux - MT DNRC
 Michele Lemieux - MT DNRC
 Matt Lindon - Loughlin Water Assoc. - UT
 George Mills - GEM Consulting - OH
 John Moyle - NJ DEP
 Raul Silva - MA DCR
 Ken Smith - IN DNR
 Charles Thompson - NM State Engineer's Ofc.

Dam Rehabilitation Funding Committee

*Tom Woosley - GA DNR
 Brooke Conner - FEMA - CO
 Jason Ward - CO DWR
 Karen Goff - ND State Water Commission
 Michele Lemieux - MT DNRC
 Bob Bowers - O'BRIEN & GERE - PA
 Scott Arends - Hanson Professional Services - IL

Finance Committee

*Roger Adams - PA DEP
 Eric Ditchey - McCormick Taylor - NJ
 John France - AECOM - CO
 Jim Gallagher - NH DES
 Jon Garton - IA DNR
 Matt Lindon - Loughlin Water Assoc. - UT
 Dusty Myers - MS DEQ
 Jim Pawloski - MI DEQ
 Paul Schweiger - Gannett Fleming - PA
 Hal Van Aller - MD Dept. of Env.

Peer Review Committee

*John Cima - Schnabel - VA
 Bill Bingham - PA
 David Gutierrez - GEI - CA
 Dan Mahoney - DJM – MD
 Bill McCormick - CO DWR
 George Mills - GEM Consulting - OH
 Ken Smith - IN DNR
 Steve Verigin - GEI - CA

Public Safety Around Dams Committee

*Paul Schweiger - Gannett Fleming - PA
 Mark Baker - Natl. Park Service - CO
 Tony Bennett - Ontario Power Gen. – ON, Canada
 Steven Davidheiser - Gannett Fleming - PA
 John France - AECOM - CO
 Matt Lindon - Loughlin Water Assoc. – UT
 Paul Meeks- Worthington Products - OH
 Carl Montana - CJM Engr. - NJ
 John Moyle - NJ DEP
 Ken Smith - IN DNR

(CONT.)

Bruce Tschantz – U. of Tennessee
 Kenneth Wright - Wright Water Engrs. - CO

Scholarship Committee

*John Moyle - NJ DEP
 Roger Adams - PA DEP
 Jeris Danielson - Danielson & Assoc. - CO
 George Mills - GEM Consulting - OH
 Carl Montana - CJM Engr. - NJ
 Elaine Pacheco - Pacheco A&E Consultants - NM
 Raul Silva - MA DCR
 Michelle Yeziarski - US Dept. Homeland Security - VA

Tailings Dam Regulatory Committee

*Charlie Cobb - AK DNR
 Carmen Bernedo - MWH Americas - CO
 Tim Eaton - Alberta Energy Regulator – AB, Canada
 Dusty Myers - MS DEQ
 Paul Opperman - NV DWR
 Art Sengupta - FL DEP
 Bryan Ulrich - Knight Piesold - CO
 Christina Winckler - AECOM – FL

Technical Journal Editorial Committee

*Craig Findlay - Findlay Engr. – ME
 *Mark Schultz - CA DWR
 Lyle Bentley - TN DEC
 Brian Cook - NC DENR
 Jessie Drayton - AECOM - CA
 Keith Ferguson - HDR - CO
 John France - AECOM - CO
 Jim Gallagher - NH DES
 Chris Karam - Brookfield Renewable Power - ME
 Art Miller - AECOM – PA
 Dusty Myers - MS DEQ
 Alan Rauch - Stantec - KY
 Nathan Snorteland - USACE - CO
 Bill Sturtevant - WI DNR
 Jim Weldon - Jim Weldon & Assoc - CO
 Meghann Wygonik Kinkley - USACE - PA

Technical Training Committee

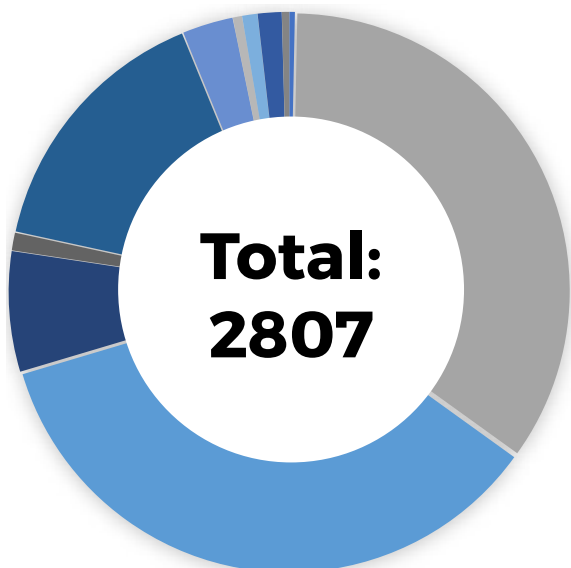
*Dave Marble - UT DWR
 Tom Woosley - GA DNR
 Randy Bass - Schnabel - GA
 Jack Byers - Byers Group - CO
 Gary Emmanuel - O'Brien & Gere - PA
 John France - AECOM - CO
 Jim Gallagher - NH DES
 Dan Mahoney- DJM - MD
 Art Miller - AECOM - PA
 Carl Montana - CJM Engr. - NJ
 Traci Powell - IN DNR
 Paul Schweiger - Gannett Fleming - PA
 Rodney Tornes - OH DNR
 Preston Wilson - FEMA - DC

MEMBERSHIP

AS OF JUNE 30, 2017

Membership Types

Voting Sustaining Member	12
Voting Member	39
Associate/Government Member	975
Company Member	197
Company Employee Member	998
Individual Member	434
Senior Member	83
Honorary Member	29
Sustaining Member	25
Student Member	15



Membership Communications

Journal of Dam Safety

- Four Issues Completed
- 3,000+ Readership

E-News Readership

- 2,600 Readership Monthly
- 36% Open Rate
- 25% Click Rate

Training and Education Newsletter

- 10,800 Readership Monthly
- 24% Open Rate - Members
- 10% Open Rate - Non-Members

TRAINING & CONFERENCES

Increasing the Technical Expertise of Dam Safety Professionals and Dam Owners



Dam Safety 2016

Philadelphia, Pennsylvania
Held: September 11-15, 2016

897 Attendance

124 Technical
Papers
Presented

Southeast Regional Conference

Nashville, Tennessee
Held: April 18-20, 2017

283 Attendance

Discover the new hub for ASDSO digital learning opportunities, at the ASDSO Learning Center!

LearningCenter.Dam-Safety.Org

ASDSO's Technical Training Program

11 Webinars Held

3559 People Trained

7 Classroom
Courses Held

222 People Trained

3,781

Total People Trained
in FY17

Classroom Topics:

Inspection and Assessment of Dams

Conduits, Gates and Valves

Dam Failures Lessons Learned

Emergency Action Planning for Dam
and Levee Safety

HEC - HMS

Plans and Specifications Review and
Construction Inspections for Dams,
Levees and Ancillary Structures

Dam Owner/Operator Training

ASDSO Staff works with individual state dam safety programs to set up workshops as needed.

Total Owners
Trained:

254

Courses held in:

Georgia
Indiana
Arkansas

MEASURING PROGRESS

Vision: A future where all dams are safe.

Mission: Improve the condition and safety of dams through education, support for state programs, and fostering a unified dam safety community.



121

projects
in Annual
Action Plan

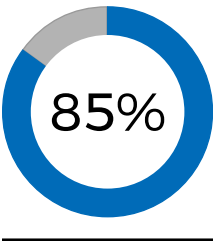
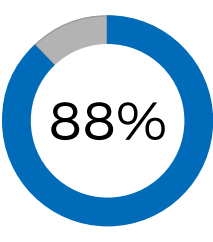
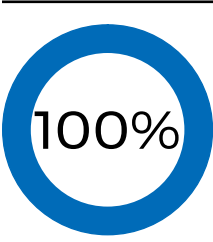
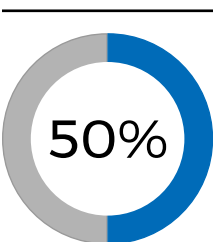
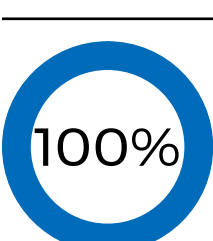
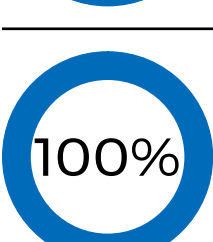
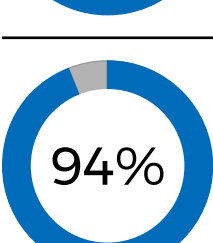
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projects
completed
or on track

92%

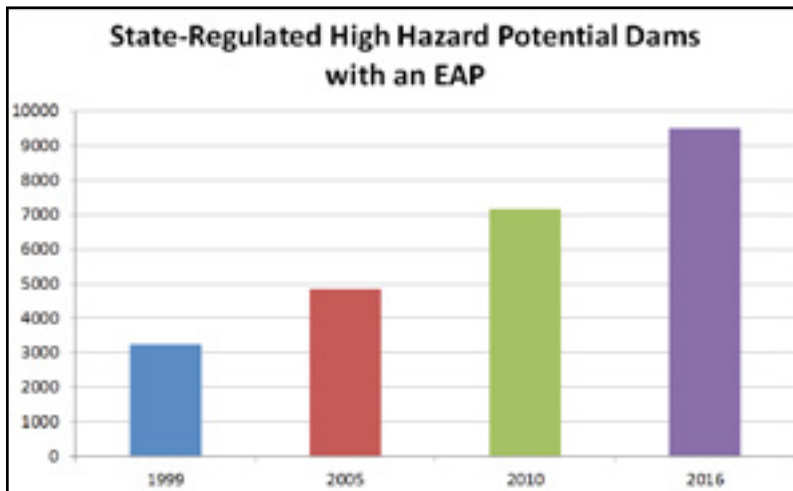
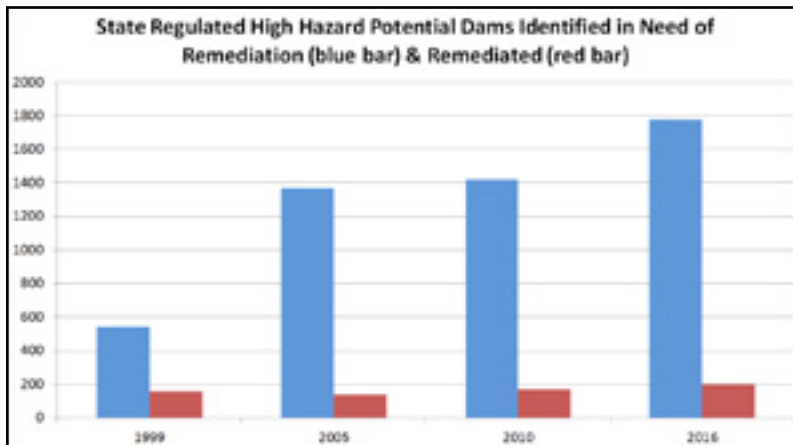
of projects
completed

Percent of Projects Completed By Goal

 <p>85%</p>	<p>Goal 1 Moderately Dependent on Outside Influences</p>	<p>Improve State Dam Safety Programs.</p>
 <p>88%</p>	<p>Goal 2 Moderately Dependent on Outside Influences</p>	<p>Increase awareness of dam safety and its benefits to all stakeholders.</p>
 <p>100%</p>	<p>Goal 3 Least Dependent on Outside Influences</p>	<p>Increase the technical expertise of dam safety professionals and owners/operators.</p>
 <p>50%</p>	<p>Goal 4 Highly Dependent on Outside Influences</p>	<p>Develop and implement financial instruments to improve dam safety programs.</p>
 <p>100%</p>	<p>Goal 5 Highly Dependent on Outside Influences</p>	<p>Promote and facilitate a consistent approach to dam safety regulation and technical criteria in all states and federal agencies.</p>
 <p>100%</p>	<p>Goal 6 Highly Dependent on Outside Influences</p>	<p>Support levee safety activities consistent with dam safety principles and interests.</p>
 <p>94%</p>	<p>Goal 7 Least Dependent on Outside Influences</p>	<p>Membership/Association Management</p>

SUPPORT FOR STATE DAM SAFETY PROGRAMS

A lot of work is done behind the scenes to assist state dam safety programs. From posting practical tools and guidance online, to supporting states when policymakers cut budgets and lessen safety standards, to advocating for federal assistance funding, ASDSO volunteers and staff keep strong dam safety programs on the front burner.



State Authorities	State Compliance			
	1989	1998	2010	2017
Legislation (5)	64%	73%	85%	86%
Inspection (4)	54%	68%	74%	78%
Enforcement (4)	66%	79%	90%	92%
EAP & Response (4)	51%	62%	72%	77%
Permitting (3)	58%	67%	75%	76%
Education & Training (3)		59%	72%	75%
Public Relations (1)		13%	30%	31%
Weighted Percentage	59%	66%	77%	79%

In this chart, higher percentages indicate greater alignment of state programs with the Model State Dam Safety Program and lower percentages can be indicative of needed improvement in authority. The areas are weighted by importance (listed in order with weighting indicated in parentheses) for the overall percentage.

Performance Monitoring

ASDSO continued to work with the Corps of Engineers and FEMA on performance data collection for state dam safety programs. ASDSO compiled and analyzed the 2016 performance data by state and nationally and used the information in legislative visits, media contacts, and in identifying trends and improvements in state benchmarks. To the left is a snapshot of data trends based on state program input.

Coordination/Communication with National Advisory Councils and Boards

ASDSO continues to facilitate participation by State Dam Safety leaders.

State Dam Safety Programs represented on the FEMA, National Dam Safety Review Board; the DHS, Dams Sector Coordinating Council; and, the US Levee Safety Coalition.

National Dam Safety Review Board

- Peter Goodman, Kentucky
- Michele Lemieux, Montana
- Bill Sturtevant, Wisconsin
- Sharon Tapia, California
- Darin Shaffer, New Jersey

DHS Dams Sector Coordinating Council

- John Moyle, New Jersey
(John Kale – Alternate)
- Jim Gallagher, New Hampshire
- Trevor Timberlake, Arkansas
- Roger Adams, Pennsylvania
(Duke Adams – Alternate)
- Toby Vinson, North Carolina
- David Gutierrez, California
- Lori Spragens, ASDSO
(Mark Ogden – Alternate)

State Surveys and Board Actions

ASDSO routinely performs technical topic surveys of the state programs on behalf of individual states. The ASDSO Board discusses the outcome of each survey compiled. Some surveys are determined to be informational only and are posted to the ASDSO website Resource Center without any action needed. Some survey results show that Board action may be needed.

Use of CentriCast Process for Rehabilitation of CMP Conduits – August 2016

This request for information from Maryland Dam Safety centered on the use of a process called “CentriPipe” to rehabilitate deteriorated corrugated metal pipe. The request was for experiences that states may have had with the process. The Board took no additional action on this survey.

Hydrologic Model Calibration/Uncertainty - August 2016

The Montana Dam Safety Program asked for a survey on how states deal with model calibration and uncertainty for inflow design flood methodology. The survey asked a series of questions on determining basin response parameters and calibration of models. The Board took no additional action on this survey.

Very Low Hazard Classification – October 2016

The Kentucky Dam Safety Program was exploring the possibility of a classification in their regulations of “Very Low Hazard” for dams that are not exempt based on height and storage but have no potential downstream hazard and very little potential for future development. They asked if other states use this type of classification, what they call it, and how it is applied. Several states replied with explanations of similar classifications. The Board took no additional action on this survey.

Hydrology in Karstic Regions – December 2016

New Mexico Dam Safety had a dam with a watershed located in a region with extensive karstic geology and they asked the other states for experiences with surface water hydrology in karstic regions. Unfortunately, there was little available experience from other states. The Board took no additional action on this survey.

Lake Drain Requirements and Variances – February 2017

Oklahoma Dam Safety asked a series of questions of other states on requirements for lake drain devices such as whether the devices are required, if waivers can be granted, and design considerations. The Board took no additional action on this survey.

Release of Information to the Public and Media – February 2017

In the wake of the Oroville Dam incident and multiple requests for information, California Dam Safety asked the states a series of questions on releases of information such as correspondence between dam owners and state dam officials, inspections reports, technical memorandums, statistical information, etc. and whether states have specific codes/regulations requiring or restricting the release of the information. Many states responded to the request and while the Board took no formal action on this survey, ASDSO did pass along the information to the joint task force looking at information sharing (National Dam Safety Review Board and DHS Dams Sector Coordinating Council).

All survey results are posted to DamSafety.Org.

Renewed Focus on Tailings Dams

Many ASDSO members supported a renewed effort to become more involved in tailings dams regulation following the failure at the Mt. Polley Dam in Canada. Alaska State Dam Safety Engineer Charlie Cobb led the charge. Charlie suggested and the Board of Directors approved the formation of ASDSO’s Tailings Dam Regulatory Workgroup, which then developed an issue paper on tailings dam safety that led to *ASDSO Resolution 1-2016: Support for Tailings Dam Safety*. The resolution passed unanimously by the voting state representatives at the 2016 annual business meeting. The resolution endorses state dam safety programs’ regulatory authority over tailings dams. In January 2017, Charlie and ASDSO President Dusty Myers participated in a Geoprofessional Business Association Tailings Engineer of Record (EOR) Workshop developed to identify concerns of EOR’s for tailings storage facility projects and develop guidance for working on these projects.

Networking Support to States Through:

- Surveys
- Technical guidance and experiences shared between state reps
- State Mentoring
- Monthly Newsletters

OUTREACH AND AWARENESS

Public Safety Around Dams

ASDSO's new Public Safety Around Dams Committee, chaired by Paul Schweiger, hit the ground running during its inaugural year.

In July 2016, committee member Ken Smith spoke at a meeting in Harrison County, KY, where at least 28 drownings at low-head dams have occurred. Ken and Indiana Silver Jackets representative Manuela Johnson brought along a video crew from Indianapolis PBS station WFYI to capture footage for the Silver Jackets' documentary *Over, Under, Gone - The Killer in Our Rivers*, which premiered in November 2016. In April 2017, the documentary was shown at the 2017 Southeast Regional Conference in Nashville as part of a 90-minute concurrent session on public safety around dams presented by Paul Schweiger and Paul Meeks.

Other committee activities this year include:

- Making presentations at the Homeland Security joint meeting of the Dams Sector councils and to the National Dam Safety Review Board to lobby for a national strategy to address public safety around dams;
- Meeting with National Fire Academy representatives at the FEMA Training Center in Emmitsburg, MD to lobby to include low-head dam rescue training in their training program for first responders;
- Redesigning ASDSO's Safety Around Dams webpage;
- Tracking public safety incidents around dams;
- Developing state-level inventories of low-head dams;
- Writing papers for various publications and meetings;
- Working with journalists nationwide on stories regarding the dangers of low-head dams; and
- Working with student groups such as Scouts, 4-H, and Future Farmers of America to have safety-at-dams information presented at their meetings.



A paper authored by two committee members is cited in the new USACE Nationwide Permit 53 – Removal of Low-Head Dams (NWP 53), published in the Federal Register in January 2017. NWP 53, in effect as of March 2017, cites a 2011 Journal of Dam Safety paper by Bruce Tschantz and Ken Wright ("*Hidden Dangers*" and "*Public Safety at Low-Head Dams*") in noting the public safety benefits associated with removal of low-head dams.

Media Outreach

ASDSO responded to approximately 70 media inquiries during the 2016-17 fiscal year, many in response to the February 2017 Oroville Dam Spillway failure. ASDSO also provided information to the media on other issues, including:

Dam rehabilitation costs – Smithsonian, Scientific American, the Associated Press, Sacramento Bee, The State, NPR, Circle of Blue Water News, Gizmodo, Gatehouse News Service, High Country News, The Trucker, Argus Leader (SD), Comstock's Magazine, Next City, Priest River Times (ID)

Dam conditions – Houston Chronicle, Henderson Gleaner (KY), Daily Sun (WA), KXL-Portland (OR), NW News Network

Emergency action plans – USA Today, The Coloradoan, KFSN-TV

Safety around dams – USA Today, Independent Journal Review, Chicago Tribune, North Jersey News, Reno Gazette-Journal

At least 50 sources cited ASDSO information available through the ASDSO website and other sources in an article but did not contact ASDSO directly.

The Oroville Spillway Crisis Forces Quick Response

In the wake of the Oroville Spillways Incident in February 2017, ASDSO fielded an unprecedented number and variety of media inquiries and implemented the Rapid Response Plan, part of the overall Communications Plan, to quickly coordinate a group of subject matter experts and refine talking points. The media was able to gather the data they needed about dam statistics and interview experts within days of the unfolding incident.

More than 50 feature articles and on-air interviews were catalogued that included data from ASDSO or quotes from ASDSO leaders. The flurry of activity began on Friday, Feb. 10, shortly after the news broke that the Oroville Dam's primary spillway was experiencing severe erosion. Over the course of the following week and into the next, a handful of specially trained members gave interviews. Several interviewees were scrambling to locate and go to broadcast facilities near them.

It became clear that many reporters wanted a personal opinion about what was happening at Oroville or wanted someone to point a finger. The ASDSO focus was on using the incident as an example of why more attention and resources must be focused on dam infrastructure improvement. In the end, several lessons learned were catalogued to help us improve on our communications in the future.

The Forensic Team is Formed

In an unprecedented action to facilitate the timely completion of an independent failure investigation report for the CA DWR, ASDSO and the U.S. Society on Dams (USSD) were called upon to appoint an independent team of experts. This action was ordered by the Federal Energy Regulatory Commission (FERC), which regulates the dam.



Over the course of several weeks in late February/early March, the ASDSO/USSD Task Force identified a number of internationally acclaimed experts to sit on the investigation team. In the end, the joint task force proposed and the state and the FERC approved the following team members:

Geotechnical: John France, P.E. D.GE., D.WRE, JWF Consulting, LLC, Team Leader

Hydraulics: Hank Falvey, Hank T. Falvey & Associates, Inc. and Colorado State University

Hydraulic Structures: John Trojanowski, P.E., Trojanowski Dam Engineering, Ltd.

Operations/Human Factors: Irfan Alvi, P.E., Alvi Associates, Inc.

Operations: Stephen J. Rigbey, SJR Consulting Engineering Geology: Peter A. Dickson, Ph.D., Stantec

The ASDSO/USSD Task Force included ASDSO President Dusty Myers, Dam Failures and Incidents Committee Chair Mark E. Baker, USSD President (outgoing) John Wolfhope, Dan Wade, Harry Blohm, and Manoshree Sundaram. ASDSO Executive Director Lori Spragens and USSD Executive Director Gene Guilford acted as advisors to and support for the Task Force.

Legislative Scrutiny

On February 28, ASDSO submitted testimony to the Senate Environment and Public Works Committee for its hearing on the nation's flood control infrastructure. The hearing was held just days after the incident began at Oroville Dam. Committee Chairman John Barrasso (R-WY), in his opening remarks said this;

"Recent natural weather events in the last month in California and in other western States are highlighting the need to focus our attention on our levees and our dams. . . Earlier this month, more than 180,000 people were evacuated in California because storms caused serious damage to the Oroville Dam. . . The potential threat of dam failure is a serious concern, a concern to State officials and to people living downstream of Oroville. . . Dams and levees across the Country need to be modernized and maintained if we are to prevent future disasters. So, I believe any infrastructure bill that this Committee develops should consider the need to maintain and modernize these structures."

ASDSO used the opportunity to push for full funding for the newly adopted National Dam Rehabilitation Program, which will become part of the National Dam Safety Program administered by FEMA. Without funding by Congress, it is unlikely that this program will be a high priority within FEMA.

PROFESSIONAL AND STUDENT DEVELOPMENT

Students at Dam Safety 2016

- 20 students attended Dam Safety 2016 in Philadelphia and the Southeast Regional Conference in Nashville.

- **Undergraduate Scholarship Winner:**
Cali McMurtrey, Brigham Young University

- **ASDSO's Committee on Education Outreach selected the following winners of ASDSO's 2016 Student Paper Competition. These students presented their papers at Dam Safety 2016:**

Estimating Ground Motions for Levees Founded Upon Soft Soils
Yi Tyan Tsai, Undergraduate Student, University of California Los Angeles. Co-authors: Scott J. Brandenburg, Ph.D., P.E., and Jonathan P. Stewart, Ph.D., P.E., University of California Los Angeles

South Carolina Flooding and Dam Failures
Emily Reed, Graduate Student, Tennessee Tech University. Co-authors: Kalie Poston, Lucas Munasque, Alfred Kalyanapu, Ph.D., and Daniel VandenBerge, Ph.D., P.E., Tennessee Tech University



Pictured: Cali McMurtrey with John Moyle, Scholarship Committee Chair, and President Myers



Pictured: Yi Tyan Tsai, Emily Reed and Kalie Poston with John Moyle, President Myers and Past President Jim Pawloski

Young Professionals Interest Group

The Young Professional Interest Group was formed to engage members under 40 in the dam safety community through ASDSO participation and service. This group works to engage young professionals by connecting them with other young professionals in the field, providing professional development needs, and more.

Peer Review

Dam Safety Program Peer Reviews were conducted for the states of Illinois, Maryland, and Oklahoma, and for the Bureau of Reclamation.

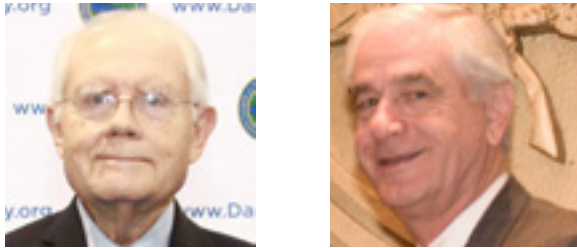
Staying Connected on Social Media

Twitter: 989 Followers (162 New Followers)
Facebook: 900 Followers (73 New Followers)
LinkedIn: 811 Followers (225 New Followers)

RECOGNITION

2016 ASDSO Awards

National Award of Merit



Bruce A. Tschantz, P.E. (Left)
Ronald A. Corso (Right)

National Rehabilitation Project of the Year



ASDSO recognized Colorado Parks and Wildlife for the Rehabilitation of Beaver Park Dam, in South Fork, CO. Additional recognition went to Aslan Construction, AECOM, ASI Constructors, the Colorado State Engineer's Office Dam Safety Program, and the Colorado Water Conservation Board.

Pictured (L to R): Bill McCormick, Chief, CO Dam Safety; Bob Broscheid, Director, CO Parks & Wildlife; Patt Dorsey, Southwest Regional Manager, CO Parks & Wildlife; Jonathan Hernandez, Project Manager, CO Water Conservation Board; Del Shannon, Project Manager, ASI Constructors; Douglas Yadon, Project Engineer, AECOM; John Clark, Dam Operations Manager, CO Parks & Wildlife; William "Dusty" Myers, ASDSO President and MS DEQ. In the back: ASDSO Awards Committee Chair Jim Pawloski (MI Dam Safety)

Honorary Members - Class of 2016

- Dave Campbell, P.E., Schnabel Engineering
- Lyle Bentley, P.E., Tennessee Department of Environment & Conservation
- Ron Corso, Retired
- Brian Long, Retired
- Steve McEvoy, P.E., Retired

Regional Awards of Merit



Northeast Regional Award

Suez Water New Jersey
Pictured: Emad Sidhom



Northeast Regional Award

Springfield Water and Sewer Commission
Pictured: Bob Stoops



Southeast Regional Award

Lyle Bentley, P.E.



Midwest Regional Award

Ohio Department of Natural Resources, Division of Engineering
Pictured: Jeremy Wenner



West Regional Award

John P. Clark, P.E.



West Regional Award

Michele Lemieux, P.E.

ASDSO RESOURCES

Updates to the Dam Safety Website

The DamSafety.Org website has been redesigned to be easier to navigate, quicker and more user-friendly. The website is also mobile friendly. ASDSO acknowledges support from the FEMA National Dam Safety Program Cooperative Technical Partnership (CTP) for the development of the new site including the new Learning Center.

The New Learning Center

The Learning Center is now the hub for ASDSO digital learning opportunities including live webinars, on-demand webinars, and downloadable webinars. Our sincere thanks go to James Demby and FEMA National Dam Safety Program for providing the resources and support necessary to launch this new web portal.



336,779
Pageviews

73,686
Users

The Bibliographic Database

ASDSO continues to add valuable resources to the bibliographic database which holds over 10,000 entries. This includes all ASDSO conference proceedings, references to other organization's papers and proceedings, ongoing and completed research in dam safety, news articles and audio/visual references. In FY18, the online ASDSO Resource Center will be re-vamped to include a user-friendly portal for access to the database.

The Conference and Journal Paper Archive

Through the new Learning Center, members have access to thousands of on-demand ASDSO papers. Soon-to-come - free accessibility to individual papers through the online bibliography.

The On-Demand Webinar Series

About 70 webinars were available through LearningCenter.DamSafety.Org in FY17. Also in FY17, all 50 State Dam Safety Agencies (and Puerto Rico) began receiving free webinar log-ins thanks to the FEMA Cooperative Technical Partnership Program. The effectiveness of this partnership program shows in the state webinar viewership over the last year.

216

Prior to the CTP -
Viewers in FY16

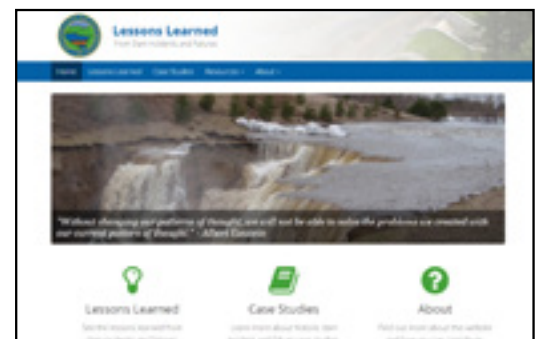
498

After CTP -
Viewers in FY17

Viewership and therefore training efforts at the state level have more than doubled.

The Dam Failures Lessons Learned Website

DamFailures.Org – an educational site focusing on learning from failures – received a shot-in-the-arm from the FEMA CTP funding. Thanks to the grant, the ASDSO Dam Failures and Incidents Committee formed a new subcommittee to 1) develop a list of historic dam failures for future researched, and 2) coordinate teams of researchers to study these failures and write new case studies for the website. Six new failure case studies and lessons learned were identified to be completed during FY17.



The Dam Owner Website

New learning tools and resources continued to be added to the DamOwner.Org site. During the year, the site got a facelift as did the DamSafety.Org. The Dam Owner Outreach Committee led an effort, still under development at the end of the year, to create a set of dam owner webinars that will be free and easily accessible by all owners.

LEGISLATIVE ADVOCACY



The National Dam Rehabilitation Bill Passes

Almost 20 years of advocacy finally paid off in FY17. In the early morning hours of Saturday, December 10, 2016, Congress passed the Water Infrastructure Improvements for the Nation (WIIN) Act. Included within this legislation was a provision to create a national dam rehabilitation program, which, if appropriated, could provide \$445 million over 10 years to jump-start dam rehab programs across the nation. An unprecedented new initiative, the program is administered through FEMA as part of the National Dam Safety Program and will be coordinated through the State Dam Safety Programs.

ASDSO wishes to thank all of our volunteer advocates for educating lawmakers. And, to our long-time partners at the Government Relations Office of the American Society of Civil Engineers, we are grateful for their tireless work on this initiative.

Afterward passage, the ASDSO advocacy efforts turned to funding as the 115th Congress began. There was some spark of interest when, on May 30, fourteen U.S. Senators wrote to the Senate Appropriations Subcommittee on Homeland Security chair and ranking member to endorse FY18 funding for the National Dam Rehabilitation Program. The letter recommended including \$10 million within the Department of Homeland Security's (of which FEMA is a part) budget for the year that started in October 2017. Both ASDSO and ASCE are cited in the letter as sources of data supporting the need for funding.

ASDSO Works with ASCE on Release of Infrastructure Report Card

The 2017 version of ASCE's Infrastructure Report Card for America's Infrastructure was released during FY17. As part of the report, ASCE considered the condition of dams in America and the funding that is both needed and currently received for rehabilitation. Dams received a grade of D, the same grade issued in the last report in 2013. Over the six months prior to the release of the report card, ASDSO actively contributed by supplying statistics, quotes and facts about the current state of America's Dams. ASDSO worked closely with ASCE to ensure that the public was receiving accurate information and that the need for increased funding for the rehabilitation of high-hazard dams was made clear after the launch. Following the release, ASDSO reps John France and Mark Ogden participated in ASCE's Legislative Fly-In to Washington, DC. ASCE and ASDSO utilized the fly-in as a chance to bring attention to the need for funding and regulation of our nation's dams to legislators.

Alabama

ASDSO continued to partner with ASCE Government Relations and the Alabama ASCE state chapter in working toward a state dam safety program in the state. ASCE hired a public relations consultant to lead the effort in development of strategic communications and coalition building. The effort includes identification of information to support a Safe Dams Program, development of strategic messaging for identified/varied audiences, creation of materials for advocacy efforts, development of necessary tools such as a website, social media, etc. ASDSO participated in the effort by providing multiple documents/information and technical/policy review, and a financial contribution for the consultant. The effort continues into FY 2018 with a long-term strategy to have safe-dams program legislation introduced in the coming years.



Through your past giving, you helped fund a number of programs that are at the heart of the organization's mission. The following projects were funded last year, in part, through the generosity of ASDSO supporters like you:

- Student Outreach, including funding for the Scholarship and Paper Competition programs
- Committee Meetings and Projects
- Public Awareness & Media Relations

THANK YOU TO OUR 2016-17 PATRONS

BENEFACTOR - \$1,000+

Paul Mauer, IL Department of Natural Resources, Morton, IL
 Worthington Products Inc.
 Alton P. Davis, Alton P. Davis, Jr. Engineering Consulting, West Ossipee, NH
 Robert E. Snow, D'Appolonia Engineering, Pittsburgh, PA

PARTNER - \$300-\$999

HI Department of Land & Natural Resources
 John W. France, AECOM, Greenwood Village, CO
 J. Bruce Pickens, Mount Vernon, OH
 Richard J. Tucker, RJ Associates LLC, Westport Island, ME
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 William B. Bingham, Camp Hill, PA
 Mark B. Ogden, Association of State Dam Safety Officials, Columbus, OH
 David L. Hinchliff, Port Townsend, WA
 Babak Naghavi, Hardesty & Hanover, Metairie, LA
 Civil Dynamics, Inc.
 Kumar & Associates, Inc

SUPPORTER LEVEL - \$100-\$299

Robert H. Dalton, Vasconcelles Engineering Corporation, Springfield, IL
 John H. Moyle, NJ Department of Environmental Protection, Trenton, NJ
 Donald L. Basinger, Schnabel Engineering, Greensboro, NC
 Nathan Graves, WY State Engineer's Office, Cheyenne, WY
 I.M. Idriss, University of California, Davis, Santa Fe, NM
 Ronald A. Corso, Vienna, VA
 Zahir "Bo" Bolourchi, Baton Rouge, LA
 Larry W. Caldwell, OK Conservation Commission, Stillwater, OK
 Anthony L. Fernandes, Malvern, PA
 Roger P. Adams, PA Department of Environmental Protection, Harrisburg, PA
 Robert P. Cannon, Schnabel Engineering, Greensboro, NC
 Christopher Cornell, Syblon Reid, Folsom, CA
 Richard W. DeBold, RWD Engineering, Wells, ME
 Meg Galloway, WI Department of Natural Resources, Madison, WI
 Jonathan Garton, IA Department of Natural Resources, Des Moines, IA
 Ralph Grismala, ICF International, Hermitage, TN
 Mark Knolle, ConeTec, Inc., Marietta, OH
 James Pawloski, MI Department of Environmental Quality, Gaylord, MI
 Gregory S. Paxson, Schnabel Engineering, West Chester, PA
 Ellis B. Pickett, Civil Engineering Hydraulics, Madison, MS
 Jeffery G. Powers, Hazen and Sawyer, Atlanta, GA
 Warren D. Samuelson, TX Commission on Environmental Quality, Austin, TX
 Melvin G. Schaefer, MGS Engineering Consultants, Inc., Olympia, WA
 Paul I. Welle, Schnabel Engineering, West Chester, PA
 Charles F. Woidt, Woidt Engineering & Consulting, Binghamton, NY

FRIEND - \$1-\$99

Theodore B. Feldsher, AECOM, Oakland, CA
 Elizabeth E. France, Washington, DC
 Daniel M. Hill, Columbus, OH
 Schnabel Engineering
 Rodney W. Eisenbraun, RJH Consultants, Inc., Lakewood, CO
 Nicholas M. Josten, GENTERRA Consultants, Inc., Irvine, CA
 Edward LaBelle, Crawford, Murphy & Tilly, Inc., Springfield, IL
 David Marble, Utah Division of Water Rights, Salt Lake City, UT
 Dusty Myers, MS Department of Environmental Quality,
 Jackson, MS
 David D. Thackeray, USDA - NRCS, Washington, DC
 Charlie Transue, US Army Corps of Engineers, Tulsa, OK
 Harald W. Van Aller, MD Department of the Environment,
 Baltimore, MD
 Advanced Marine Services Corp.
 Felipe Smith, AL
 John E. Andrews, USDA - NRCS, Denver, CO
 John W. Dexter, Bellevue, MI
 Dwayne E. Lillard, Albuquerque, NM
 Janis C. Murphy, Freese & Nichols, Inc., Fort Worth, TX
 Chris Ritz, USDA - NRCS, Indianapolis, IN
 Konara Kendaragama, Snowy Mountains Engineering
 Corporation (SMEC), Dingley Village, Victoria
 Finley Lloyd, S & ME, Inc., Lexington, NC
 Ardalan Nikou, AECOM, Honolulu, HI
 John Tarr, Prince George's Soil Conservation District, Upper
 Marlboro, MD
 Kevin Aubry, Terracon Consultants Inc., West Palm Beach, FL
 J. Fletcher Baltz, ARCADIS, Saratoga Springs, NY
 Edward G. Beadenkopf, Atkins, Alexandria, VA
 Sara Bell, Monterey, VA
 Stephen Benson, AECOM, Seattle, WA
 John Blair, Silt, CO
 Gayln Bowers, Cohutta Springs Conference Center, Crandall, GA
 Carol Buckles, Terra Mater, Inc., Berkeley, CA
 Jack G. Byers, Byers Group LLC, Arvada, CO
 Gonzalo Castro, GEI Consultants Inc, Lexington, MA
 Sean Chapman, Marine Solutions, Inc., Nicholasville, KY
 Christopher Collins, Pawtucket Water Supply Board,
 Pawtucket, RI
 Byron Conrad, Arizona Public Service Company, Phoenix, AZ
 Bradley Cox, US Army Corps of Engineers, Jacksonville, FL
 Edward Daly, Conshohocken, PA
 Brian Davila, Charles P. Johnson & Associates, Silver Spring, MD
 Rob Delsman, Penhall, Grand Prairie, TX
 Dennis R. Dickey, Gannett Fleming, Inc., Harrisburg, PA
 George L. Eller, Raleigh, NC
 Eric Fromherz, Gannett Fleming, Inc., Camp Hill, PA
 Bob Gaddis, Future Resources Engineering, LLC, Bartlesville, OK
 Aimer Garcia, New Jersey Water Supply Authority, Clinton, NJ
 Michel Gavillet, Kiewit Corporation, Woodcliff Lk, NJ
 Jose D. Guardiario, South Florida Water Management District,
 West Palm Beach, FL
 Mehrzad Hakakzargar, B.C. Hydro, Coquitlam, BC
 Timothy Haynes, GEI Consultants, Inc., Oakland, CA
 Paul Hollis, The Reinforced Earth Company, Euless, TX
 David E. Hook, San Jose, CA
 Aled Hughes, Stantec Consulting Services, Inc., Sammamish, WA
 H. J. Hughes, DLZ Ohio, Inc., Columbus, OH
 William M. Johnstone, Spatial Vision Group Inc.,
 North Vancouver, BC
 Mike Kelter, Green Cove Springs, FL
 Joseph R. Kula, ARCADIS, Frederick, MD
 Amanda Lopez, AECOM, Aurora, CO
 Gerard M. Lutticken, Petaluma, CA
 Paul Malocha, Stantec Consulting Services, Inc., Ann Arbor, MI
 Ray E. Martin, REM, LLC, Ashland, VA
 Michael R. May, AECOM, Greenwood Village, CO
 Daniel Mensah, US Army Corps of Engineers, Baltimore, MD
 John W. Myers, Wisconsin Public Service, Green Bay, WI
 Larry K. Nuss, Nuss Engineering, LLC, Highlands Ranch, CO
 Jimmy S. O'Brien, FLO-2D Software, Inc., Nutrioso, AZ
 Peter W. O'Hara, Engineering Consulting Services, Ltd.,
 Fredericksburg, VA
 Kimberly Pate, Seattle City Light, Seattle, WA
 John G. Plisich, Federal Emergency Management Agency,
 Atlanta, GA
 Keith A. Pytlik, Township Of Washington, NJ
 Debra S. Rankin, Austin, TX
 Michael Rankin, Water Training Australia, Torrumbarry, Victoria
 Steven J. Riedy, Tetra Tech, New Albany, OH
 Robert P. Ringholz, Fugro Consultants, Inc., Houston, TX
 William A. Rochford, US Army Corps of Engineers, Chicago, IL
 Greg Rollins, MWH Americas, Inc., Portland, OR
 Timothy E. Saylor, Lancaster, PA
 Larry Schoessler, Bureau of Reclamation, Billings, MT
 Steve Schultz, Schultz Engineering, Post Falls, ID
 Kenneth See, US Nuclear Regulatory Commission, Rockville, MD
 Dan Smith, RIZZO Associates, Saint Louis, MO
 Gilbert R. Tallard, Liquid Earth Support Inc., McLean, VA
 David E. Tapia, Compañía Minera Antamina S.A, Lima,
 Ed A. Toms, AECOM, Greenwood Village, CO
 Robert K. Vanderslice, Lakeland, FL
 Daniel Verret, Hydro Quebec, Montreal, QC
 Michael W. Viessman, US Army Corps of Engineers,
 Jacksonville, FL
 Keith Wall, Willowstick Technologies, Draper, UT
 Martin Walther, WA State Department of Ecology, Olympia, WA
 Ray L. Wooten, GEI Consultants, Inc., Woburn, MA
 Greg Yankey, HDR Engineering, Inc., Lexington, KY
 Thomas F. Zimmie, Rensselaer Polytechnic Institute, Troy, NY
 Nicholson Construction Company,
 Fuss & O'Neill, Inc.,
 Dungan Engineering, P.A.
 JFR Engineering, PLLC
 Lemke Industrial Machine LLC
 Yogi Kwong Engineers LLC
 Ross Brown, Association of State Dam Safety Officials,
 Lexington, KY
 Michael Guido, RIZZO Associates, Pittsburgh, PA
 Civil & Environmental Consultants, Inc.
 Ransford Addei, KCI Technologies, Inc., Laurel, MD
 Ronald Herazo, Drexel University, Philadelphia, PA

FINANCIAL SUMMARY

2016-17 Financial Detail

In June of 2016, the Board of Directors approved a Fiscal Year 2017 budget to carry out the 2016-17 Action Plan. The fiscal year runs from July 1 to June 30. The budget totaled \$2.15 million to carry out projects and objectives. At the end of the year, the Action Plan was completed within budget, with an excess revenues over expenditures of approximately \$10,000.

ASDSO engages with an outside accounting auditor annually to review accounting practices, create the balance sheet and final statement of financial position, and make recommendations to the Board on financial management procedures. The accountant creates annual 990s and 990-Ts, which are required IRS forms that 501(c)(3) organizations, such as ASDSO, submit. Members may request copies of the 990s by contacting ASDSO.



2016-17 Statement of Financial Position

ASSETS

Current assets:	
Cash and cash equivalents	\$130,756
Accounts receivable	\$12,945
Prepaid expenses	\$177,530
Contracts/grant receivable	\$115,032

Total Current Assets	\$436,263
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Property and equipment:

Land	\$150,000
Building and improvements	\$991,331
Furniture and equipment	\$232,875
Less accumulated depreciation	(\$232,540)

Total property and equipment	1,141,666
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Intangible assets:

Loan origination fees	\$6,000
Less accumulated amortization	(\$1,850)

Total intangible assets	\$4,150
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Investments	\$650,993
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TOTAL ASSETS	\$2,233,072
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LIABILITIES AND NET ASSETS

Current liabilities:	
Accounts payable	\$88,573
Accrued employee benefits	\$81,276
Accrued interest	\$1,069
Contract payment received in advance (Corps of Engineers)	\$7,583
Registration fees received in advance	\$264,560
Income taxes payable	\$2,525
Deferred dues	\$150,025
Income received in advance	\$23,465
Mortgage payable	\$24,779

Total current liabilities	\$643,855
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Long term liabilities:

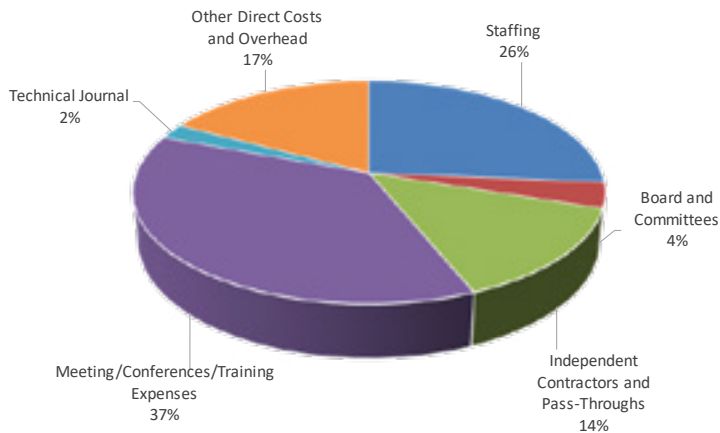
Mortgage payable	\$563,167
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Total liabilities	\$1,207,022
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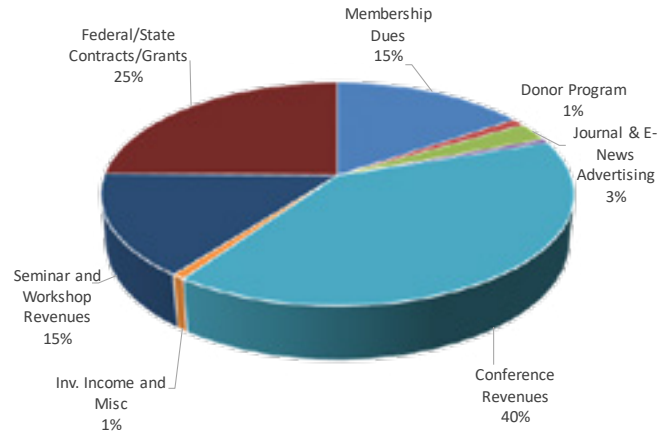
Net Assets:	\$1,026,050
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TOTAL LIABILITIES AND NET ASSETS	\$2,233,072
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Summary of Expenses for 2016-2017



Summary of Revenues for 2016-2017



Revenue

This is a summary of the revenues for 2016-17. Line items include dues; income from journal, e-news and industry directory advertising sales and bookstore income; registration fees, investment income and grants and contracts with federal or state agencies which support training and peer review activities.

Revenues

	Budget	Actuals
Dues	\$343,453.00	\$325,784.28
Marketing & Sales Income	\$123,000.00	\$69,056.63
Conferences and Training	\$1,246,975.00	\$1,127,245.69
Contracts and Grants	\$570,390.00	\$519,706.01
Investments Dividends	\$18,000.00	\$16,320.68
Donations	\$30,000.00	\$22,173.15
Regionals Conference		
Support Fees	\$15,000.00	\$15,000.00
Misc.	\$500.00	-\$256.44
TOTAL	\$2,347,318.00	\$2,095,030.00

Expenses

This is a summary of the expenses for 2016-17. Line items include total staff, outside contracting support including the cost of trainers for the training program, committee support (including meetings, development of documents and scholarships), meeting costs, the quarterly journal and other direct costs, which include all headquarters operational expenses, printing, membership communications and branding/marketing.

Expenditures

	Budget	Actuals
General Admin Labor, Fringes, Taxes	\$470,164.69	\$403,695.07
General Admin Travel & Board / Cmte. Cost	\$101,950.00	\$76,814.42
General Admin Direct Costs & Contracting	\$235,291.00	\$198,306.44
General Admin Overhead	\$202,232.60	\$210,478.09
Conferences & Training Costs	\$813,700.00	\$762,182.94
Contracts & Grants Labor, Fringes, Taxes	\$109,795.31	\$145,311.83
Contracts & Grants All Other Costs	\$391,921.00	\$287,615.39
TOTAL	\$2,325,054.60	\$2,084,404.18



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Membership and Marketing Director, Ross Brown

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Communications Manager, Katelyn Riley

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* Hired in February 2017



Information and Resource Manager, Sarah McCubbin-Cain

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Technical Specialist, Mark Ogden

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Association of State Dam Safety Officials

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IN MEMORIAM



Bruce Tschantz

Bruce served as a dam safety consultant to the Executive Office of the President during the Carter Administration, developing and coordinating policies and programs for federal and non-federal dam safety. He established FEMA's Office of Federal Dam Safety, serving as the first Chief of Federal Dam Safety in 1980, and also served on the National Academy of Sciences National Research Council Committee on Dam Safety. Bruce was an Honorary Member of ASDSO and an ASCE Fellow. In 2016, Bruce was honored with ASDSO's National Award of Merit. He was passionate about recruiting and educating the next generation of dam safety professionals, and chaired ASDSO's Committee on Education Outreach from its inception in 2004 to September 2010. He also worked tirelessly to raise awareness of safety hazards at dam sites and was instrumental in the creation of ASDSO's Public Safety Around Dams Committee.



Delbert Downing

Delbert Downing, who passed in January 2017, was one of ASDSO's founding members. Mr. Downing was on the ASDSO's Organizing Committee and ASDSO's First Board of Directors. He represented the state of New Hampshire.



Thomas A. Kelly

Thomas A. Kelly died in January 2017. Tom was a vital part of ASDSO for more than 33 years, contributing his technical expertise and experience as a dam owner to ASDSO's Peer Review Program, under which he participated in reviews of 12 state programs and programs within the U.S. Department of Interior and the U.S. Mine Safety and Health Administration. A founding member of ASDSO's Affiliate Member Advisory Committee, Mr. Kelly was named an ASDSO Honorary Member in 2002. As senior civil engineer for Southern California Edison Company, Mr. Kelly was responsible for dam safety and performance evaluation of 33 company-owned dams and related facilities.



Pat Diederich

Former ASDSO board member Pat Diederich passed away unexpectedly in April 2017, just a few days before his 53rd birthday. Pat was dedicated to the dam safety community and served a vital role in improving dams in his home state of Nebraska, where he served as the Chief of the Dam Safety Program.



Steve Poulos

Dr. Steve J. Poulos, geotechnical engineer and co-founder of GEI Consultants, Inc., passed away in October 2016. A native of Burlington, VT, Steve received a BS in civil engineering, an MS in soil mechanics and hydraulics from the Massachusetts Institute of Technology, and a PhD in soil mechanics from Harvard. Steve taught several ASDSO technical seminars on stability of embankment dams and presented at ASDSO conferences. He authored or co-authored more than 25 technical papers, and, with colleague Ron Hirschfeld, co-edited the book *Embankment Dam Engineering*, a tribute to Arthur Casagrande.



David Dowling

David Dowling, Deputy Director of Soil and Water Conservation, Dam Safety and Floodplain Management with the Virginia Department of Conservation and Recreation, passed on Monday, October 30th after a battle with multiple myeloma. David's career with the Department of Conservation and Recreation spanned 18 years. David was the ASDSO Virginia state representative.



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