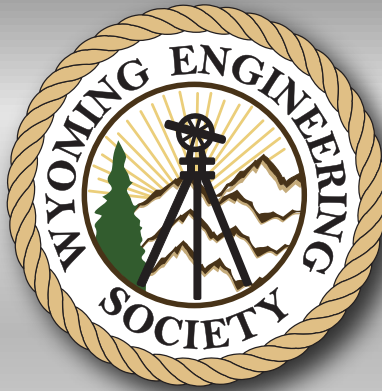




100th

ANNIVERSARY

ANNUAL CONVENTION

**February 5 & 6
2020**

Little America Hotel
and Convention Center
Cheyenne, Wyoming

WES Officers



100th Annual Convention February 5th and 6th, 2020

Murray Schroeder — President

Ryan Kobbe — Vice President

Jeff Bates — Secretary/Treasurer

Location

Little America Hotel and Convention Center
Cheyenne, Wyoming

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Committees

GENERAL CO-CHAIRS

Chair Pete Hutchison & Erin Gates

ARRANGEMENTS AND ENTERTAINMENT

Chair John Lee

EXHIBITS

Chair John Bonifer

REGISTRATION

Chair Bruce Hattig

PUBLICITY

Erin Gates, Chairman
Josh Fuller
Lisa Johnson
Randy Bomar
Heath Overfield

NOMINATIONS

Amy Allen, Chairman
David Whitman
Dave Engels

LEGISLATIVE

Mark Madsen, Chairman

SITE SELECTION

Will Dolinar, Chairman
Dave Engels

DUBISSARY

Ryan Kobbe

RESOLUTIONS

Josh Fuller, Chairman
Thom Edgar
Mike Donnell

FINANCE

Jeff Bates, Chairman
Pete Hutchison
Harrison Carter

PROGRAM

Ryan Kobbe
Jack Studley

STUDENT SCHOLARSHIP AND AWARDS

Justin Terfehr, Chairman
Rick Deuell
Angie Schrader
Joe Lord
Thomas V. Edgar
David Whitman
David M. Bagley
Murray Schroeder
Ryan Kobe
Jeff Bates
Derrick Thompson
Cameron Wright

PRESIDENTIAL PROJECT AWARD

David Whitman, Chairman
Albert "Boots" Nelson
David Schropfer
Duane Klamm
Ed Scott
Shelby Carlson
Shelley Macy
Keith Fulton

Event Sponsors

*A very special
thank you to our sponsors!*

— PLATINUM —



— SILVER —



— SILVER —



T-O ENGINEERS

Presidents Outstanding Engineer Award

Kenneth Beach	1989
Larry Martin	1990
Frank Trelease	1991
Al “Boots” Nelson	1994
John Steadman	1995
Don Livingston	1996
George Christopulos	1997
Paul Rechard	1999
Floyd Bishop	2000
Gene “Rocky” Roccabruna	2001
Sally Steadman	2002
Wayne Johnson	2003
Jerry Jessen	2004
Donald Lamb	2005
J. Kenneth Kennedy	2006
Raymon Jacquot	2007
Michael K. Purcell	2008
Leno Menghini	2009
Thomas Edgar	2010
Harry Kessner	2011
David Whitman	2012
Jeffery B. Fuller	2013
Joseph C. Lord	2014
Jim Gores	2015
Mike Vaughn	2016
Corky Stetson	2017
Lloyd Baker	2018
Pete Hutchison	2019

Past Presidents



Elected	President	(Home)	Site	Year
1918	* Frank C Emerson	Worldand	Cheyenne	1919
1919	* J.C. Fitterer	Laramie	Thermopolis	1920
1920	* J.C. Fitterer	Laramie	Laramie	1921
1921	* Ambrose Hemingway	Casper	No Meeting	1922
1922	* Ambrose Hemingway	Casper	Cheyenne	1923
1923	* J.W. Wisda	Rawlins	No Meeting	1924
1924	* J.W. Wisda	Rawlins	Cheyenne	1925
1925	* Z.E. Sevison	Cheyenne	Casper	1926
1926	* Elmer K. Nelson	Laramie	Cheyenne	1927
1927	* William C. Newell	Casper	Casper	1928
1928	* Clyde W. Atherty	Cheyenne	Cheyenne	1929
1929	* John B. Clearly	Casper	Laramie	1930
1930	* Howard F. Bell	Cody	Cheyenne	1931
1931	* Joel Q. Naret	Cheyenne	Cheyenne	1932
1932	* Herbert L. Kennedy	Casper	Cheyenne	1933
1933	* E.C. Gwillim	Sheridan	Cheyenne	1934
1934	* W.A. Norris	Cheyenne	Casper	1935
1935	* W.B. Schilling	Casper	Laramie	1936
1936	* R.D. Goodrich	Laramie	Cheyenne	1937
1937	* James B. True	Cheyenne	Casper	1938
1938	* H.E. Robinson	Casper	Cheyenne	1939
1939	* Joseph A. Elliot	Wheatland	Laramie	1940
1940	* H.T. Person	Laramie	Casper	1941
1941	* R.J. Templeton		Cheyenne	1942
1942	* Earl Lloyd	Cheyenne	Cheyenne	1943
1943	* Ellis Hudman	Rock Springs	Cheyenne	1944
1944	* George T. Cunningham	Cheyenne	Cheyenne	1945
1945	* George T. Cunningham	Cheyenne	Cheyenne	1946
1946	* Charles M. Smith	Thermopolis	Casper	1947
1947	* J.G. Smith	Cheyenne	Casper	1948
1948	* J.A. Cole	Wheatland	Cheyenne	1949
1949	* John E. Wiley	Cheyenne	Casper	1950
1950	* O.P. Reed	Cheyenne	Cody	1951
1951	* I.J. Matthews	Casper	Casper	1952
1952	* H.W. Read	Cheyenne	Laramie	1953
1953	* A.M. Zuill	Casper	Casper	1954
1954	* A.J. McGaw	Laramie	Cody	1955
1955	* Robert M. Sensintaffer	Casper	Cheyenne	1956
1956	* Kirby H. Olds	Cheyenne	Casper	1957
1957	* L.C. bishop	Cheyenne	Newcastle	1958
1958	* Lloyd W. Taggart	Cody	Laramie	1959
1959	* Joseph T. Banner	Laramie	Cheyenne	1960
1960	* George R. MacDougall	Cheyenne	Casper	1961
1961	* Joseph S. Bailey	Cheyenne	Sheridan	1962
1962	* R. Lee Donley	Casper	Casper	1963
1963	* A.J. Hull Jr.	Laramie	Cheyenne	1964
1964	* H.L. Worthington	Casper	Jackson	1965

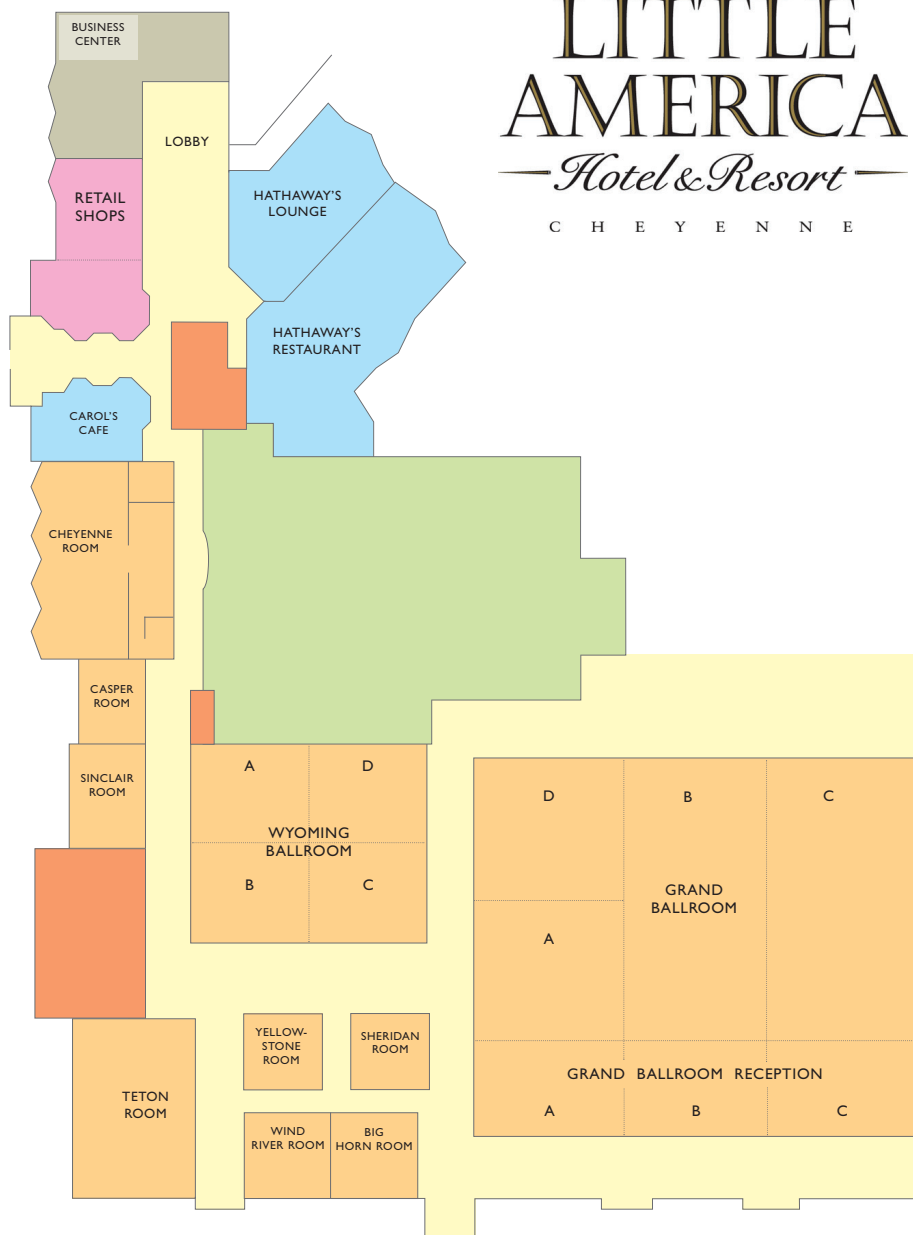
Past Presidents

Elected	President	(Home)	Site	Year
1965	* Carl R. Oslund	Sheridan	Laramie	1966
1966	* Eric J. Lindahl	Laramie	Cheyenne	1967
1967	* Ross G. Stapp	Cheyenne	Rawlins	1968
1968	* Malcolm D. Martin	Cheyenne	Casper	1969
1969	* Floyd A. Bishop	Cheyenne	Jackson	1970
1970	* Glenn B. Mullens	Laramie	Cheyenne	1971
1971	* Melvin Webb	Cheyenne	Rock Springs	1972
1972	John S. Bereman	Cody	Thermopolis	1973
1973	* John d. Alyea	Cheyenne	Casper	1974
1974	* G.W. Griggin	Casper	Cheyenne	1975
1975	* Robert Jack Smith	Rawlins	Cody	1976
1976	* Paul A. Rechard	Laramie	Rawlins	1977
1977	* George L. Christopulos	Cheyenne	Sheridan	1978
1978	J. Kenneth Kennedy	Wheatland	Jackson	1979
1979	* Donald R. Lamb	Laramie	Cheyenne	1980
1980	Al "Boots" Nelson	Jackson	Casper	1981
1981	* Dale Vandenburg	Cheyenne	Gillette	1982
1982	* Frank Luers	Casper	Cody	1983
1983	Don Livingston	Cody	Douglas	1984
1984	* Frank Trelease	Cheyenne	Sheridan	1985
1985	Wayne Johnson	Rock Springs	Rock Springs	1986
1986	* William Grenier	Laramie	Riverton	1987
1987	* R .Ken Beach	Laramie	Cheyenne	1988
1988	* Alfred DeBernardi	Rock Springs	Casper	1989
1989	* Bob Schultz	Casper	Gillette	1990
1990	Maynard Johnson	Casper	Cody	1991
1991	Forrest Kepler	Laramie	Sheridan	1992
1992	* Walter Pilch	Sheridan	Laramie	1993
1993	Sally J. Steadman	Laramie	Riverton	1994
1994	E. Mark Williams	Casper	Cheyenne	1995
1995	* John I. Dolinar	Green River	Casper	1996
1996	James Spell	Sheridan	Rock Springs	1997
1997	* Martin Pedersen	Rawlins	Sheridan	1998
1998	Raymond Jacquot	Laramie	Gillette	1999
1999	Peter Hutchison	Cheyenne	Cheyenne	2000
2000	Stanton J. Abell Jr.	Worland	Casper	2001
2001	Bruce R. Yates	Sheridan	Sheridan	2002
2002	Joseph W. Manatos	Rock Springs	Cheyenne	2003
2003	John A. Steil	Cheyenne	Casper	2004
2004	Harry J. Kessner	Green River	Gillette	2005
2005	Michael K. Purcell	Cheyenne	Cheyenne	2006
2006	Robert R. Norton	Jackson	Sheridan	2007
2007	* Corky Stetson	Gillette	Cheyenne	2008
2008	Jerry Jessen	Cheyenne	Casper	2009
2009	* Jim Cavalli	Laramie	Laramie	2010
2010	Dave Schropfer	Casper	Cheyenne	2011
2011	Thomas Edgar	Laramie	Sheridan	2012
2012	Joe Lord	Laramie	Casper	2013
2013	Jeff Fuller	Sheridan	Laramie	2014
2014	Erin Gates	Cheyenne	Cheyenne	2015
2015	Dave Engels	Sheridan	Sheridan	2016
2016	Dave Whitman	Laramie	Casper	2017
2017	Amy Allen	Cheyenne	Laramie	2018
2018	Amy Allen	Cheyenne	Cheyenne	2019

* Deceased

Little America

LITTLE AMERICA — Hotel & Resort — C H E Y E N N E



Program

WES 100th Annual Convention
February 5-6, 2020

Schedule

Wednesday, February 5, 2020

Vendor Setup – 8:00-11:30 am – **Grand Ballroom B & C**

Registration – 8:00-11:30 am – **Grand B Hallway**

Capitol Tour – 9:30-11:30 am

Capitol Tours – Trolley's leave Little America at 9:30 and 10:00 am

- Capitol Tour #1 – Guided – 9:30-11:15 am – Suzanne Norton
- Capitol Tour #2 – Self Guided – 10:00-11:45 am

Trolley's return to Little America at 11:00 and 11:30 am

Self-guided tours are available at any time during the Convention, but trolley service is only provided Wednesday at 9:30 & 10:00 am and Thursday at 1:00 and 1:30 pm.

Lunch – 11:30-12:45 pm – President Presides – **Grand Ballroom B & C**

Opening remarks – Murray Schroeder

Invocation – Deacon Dave Zelenka, Church of the Holy Trinity

Welcome – Amber Ash, Chair of Laramie County Board of Commissioners

Recognize National leadership and special guests – Murray Schroeder

- NSPE – David Martini (NSPE President) & Michael Akin (NSPE Past President)
- ACEC – John Carrato, SE, PE (Regional Vice Chair)
- ASCE – Edward Stafford (Region 7 director)

Special Guest – Governor Mark Gordon

Proclamation for WES' 100th year

State of the Society — Murray Schroeder

Keynote / Combined Session – Introduced by Ryan Kobbe – 12:45-2:15 pm –
Grand Ballroom B & C

Capitol Construction Project – Suzanne Norton, AIA - State Construction Department -
Architectural Project Manager

Break/Vendor Interactions – 2:15-2:35 pm – **Grand Ballroom B & C**

Session 1 – 2:35-3:30 pm

Surveying – Shannon Hixon – Hixson Manufacturing – Drone advances and applications
– **Grand A**

Engineering – Mike Robinson, P.E. – Mike Robinson, L.L.C. – Value Engineering from a
Contractor's Perspective – **Grand D**

Engineering – Vince Garcia & Shane Zumpf – Trihydro – Connected Vehicles –
Wyoming C

General – Angela Folkestad – American Concrete Pavement Association (ACPA) –
Increasing Purchasing Power for Transportation Infrastructure through Competition –
Bighorn Room

Break/Vendor Interactions – 3:30-3:50 pm – **Grand Ballroom B & C**

Program Cont.

WES 100th Annual Convention
February 5-6, 2020

Schedule

Session 2 – 3:50-4:45 pm

Surveying – William Stone – S.W. Regional Advisor, NOAA/NGS & Mark Corbridge – Right of Way, Engineering Section, WyDOT – **Wyoming C**

Engineering – Tim Miller – CONTECH Engineered Solutions – Wildlife Crossings Across the West – Long Term Cost Savings by Reducing Car and Animal Collision – **Grand D**

General – Matthew Melinkovich – Timberline Training – Crucial Communication – **Grand A**

General – Michael De Prima – CliftonLarsonAllen – Tax Saving Opportunities for Engineering Firms / What Tax Reform means for Engineering Firms – **Bighorn Room**

Beer Break – Visit Cheyenne Sponsored Welcome Reception – 5:00-6:30 pm – **Grand Ballroom B & C**

Exhibitor raffles

Hospitality Rooms – 6:30-10:00 pm

Thursday – February 6, 2020

Past President's Breakfast – 7:00-8:20 am – President Presides – Casper Room
Past Presidents Breakfast (By Invitation Only)

Break/Vendor Interactions – 8:00-8:20 am – **Grand Ballroom B & C**

Session 3 – 8:20-9:15 am

Surveying – PLSW Meeting (Session 3 and 4) – **Wyoming C**

Engineering – Kate Vitale, PE – Moisture Management Geotextiles – **Grand D**

General – David Martini, P.E. – NSPE – The importance of Licensure for Professional Engineers in protecting the health, safety and welfare of the public – **Grand A**

General – Teddi Freedman & Tyler Grabner – UW – Connecting with UW - Philanthropy and Internships – **Bighorn Room**

Break/Vendor Interactions – 9:15-9:35 am – **Grand Ballroom B & C**

Session 4 – 9:35-10:30 am

Surveying – PLSW Meeting (Session 3 and 4) – **Bighorn Room**

Engineering – Kelly W. Hafner – Civil Worx, LLC – Challenges, Advantages, and Disadvantages of 2-dimensional Modelling for Defining Special Flood Hazard Areas (i.e. floodplains) – **Grand D**

Engineering – Tara Bettale & Katie Angell – HDR – STRATEGIC COMMUNICATIONS STRATEGIES: Outreach & Communication for Today's Public – **Grand A**

Engineering – Roger J. Shafer, P.E. – Colorado Professionals in Onsite Wastewater (CPOW) – Onsite Wastewater Treatment System Design A Perspective from Colorado – **Wyoming C**

Program Cont.

WES 100th Annual Convention
February 5-6, 2020

Schedule

Break/Vendor Interactions – 10:30-10:50 am – **Grand Ballroom B & C**

Session 5 – 10:50-11:45 am

Surveying – PLSW Board of Directors Meeting – **Wyoming C**

Engineering – Patrick Laidlaw, P.E. – Aegion Corporation – Emerging Renewal Technologies for Pressurized Pipelines – **Grand A**

General – Francois Jacobs – UW – The future of Wyoming's Construction Work Force – **Grand D**

Other – WySPE Meeting – **Bighorn Room**

Scholarship Lunch – 11:45-1:00 pm – Vice President Presides – **Grand Ballroom B & C**

Opening remarks – Ryan Kobbe

College Update – Interim Dean, Cam Wright

Scholarships and Awards – Thom Edgar

- Student of the Year

Order of the Engineer

Break/Vendor Interactions – 1:00-1:20 am – **Grand Ballroom B & C**

Capitol Tour – 1:00-2:30 pm – Trolley leaves Little America at 1:00 and 1:30 am

- Capitol Tour #3 – Guided – 1:00-2:45 pm – Suzanne Norton
- Capitol Tour #4 – Self Guided – 1:30-3:15 pm

Trolley returns to Little America at 2:30 and 3:00 pm

Self-guided tours are available at any time during the Convention, but trolley service is only provided Wednesday at 9:30 & 10:00 am and Thursday at 1:00 and 1:30 pm.

Session 6 – 1:20-2:15 pm

Surveying – Robert Green, PLS – Frontier Precision – How to prepare for NGS's 2022 in Office & Software – **Wyoming C**

Engineering – Marshall Palmer, P.E. – CONTECH Engineered Solutions – Stormwater Solutions – **Grand D**

General – Georgia Knauss – SWCA Environmental Consultants – Management and Mitigation of Paleontological Resources: The Predicted and Unpredicted Fossil Find – Now What? – **Grand A**

Other – ACEC Meeting – **Bighorn Room**

Break/Vendor Interactions – 2:15-2:35 pm – **Grand Ballroom B & C**

Program Cont.

WES 100th Annual Convention
February 5-6, 2020

Schedule

Session 7 – 2:35-3:30 pm

Surveying – Joe Scott, Nat. Res. Program Supv. – Wyo. Oil & Gas Conservation Commission – Certification of Agency map submittals – **Wyoming C**

Engineering – Milhan Moomen – UW – Updating and Implementing the Grade Severity Rating System (GSRS) for Wyoming Mountain Passes – **Grand D**

Engineering – Mike LaViolette, P.E. & Troy Borchard, P.E. – HDR –

ACCELERATED BRIDGE CONSTRUCTION: It's Not a One-Size-Fits-All Solution – **Grand A**

Other – ASCE Meeting – **Bighorn Room**

Break/Vendor Interactions – 3:30-3:45 am – Sponsored by **T-O Engineers**
– **Grand Ballroom B & C**

WES BUSINESS MEETING – President Presides – 3:45-5:00 pm – **Grand A**

Hosted Reception – New President Presides – 5:00-7:00 pm – **Grand Ballroom B & C**

Opening remarks

Thank Convention Chairs

State Board Update - Recognize PE, LS, EI, and SI recipients - Shelley Macy, PE and Robert Norton, PELS

Project of the year awards – Dave Whitman

2020 Engineer of the year – Murray Schroeder

ASCE Life Members

Meretricious Achievement Award

Friday, February 7th, 2020

ASCE Continued Education Courses – 8:00 am – noon

WY – ASCE – **Wyoming ABCD**

Honorary Members



Stanton J. Abell, Jr

Amy Allen

John Balog

Dave Baskett

John S. Bereman

Robert D. Clary

Jerald B. Crews

Rick Deuell

Thomas V. Edgar

Dave Engels

Jeff Fuller

Erin Gates

Jim Gores

Peter Hutchison

Jerry Jessen

Raymond Jacquot

Maynard Johnson

Wayne Johnson

J. Kenneth Kennedy

Forrest M. Kepler

Harry Kessner

Donald Livingston

Joseph C. Lord

Joseph Manatos

Albert "Boots" Nelson

Robert R. Norton

Frank Odasz

Robert N. Olsen

Michael K. Purcell

Paul A. Rechar

Gene "Rocky" Roccabruna

Paul N. Scherbel

Dave Schropher

James Spell

Sally Steadman

John Steil

Mike Vaughn

David Whitman

E. Mark Williams

Bruce Yates

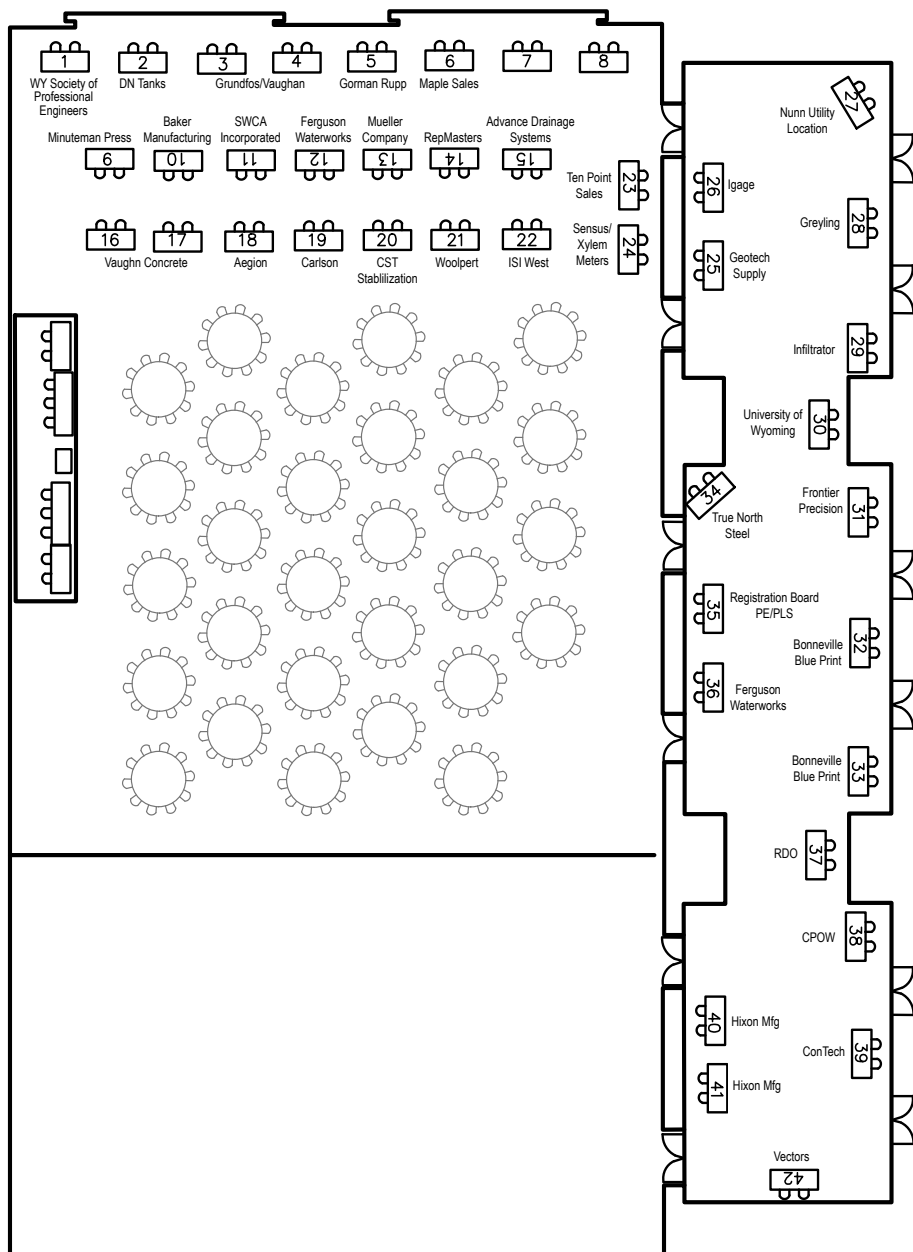
William Young

Thank You All for Coming!
See you next year in Sheridan
February 3 & 4, 2021

Exhibitors

- | | | | |
|----|---|----|------------------------------|
| 1 | Wyoming Society of Professional Engineers | 22 | ISI West |
| 2 | DN Tanks | 23 | Ten Point Sales |
| 3 | Grundfos/Vaughan | 24 | Sensus/Xylem Meters |
| 4 | Grundfos/Vaughan | 25 | Geotech Supply |
| 5 | Gorman Rupp | 26 | Igage |
| 6 | Maple Sales | 27 | Nunn Utility Location |
| 7 | | 28 | Greyling |
| 8 | | 29 | Infiltrator |
| 9 | Minuteman Press | 30 | University of Wyoming |
| 10 | Baker Manufacturing | 31 | Frontier Precision |
| 11 | SWCA Incorporated | 32 | Bonneville Blue Print |
| 12 | Ferguson Waterworks | 33 | Bonneville Blue Print |
| 13 | Mueller Company | 34 | True North Steel |
| 14 | RepMasters | 35 | Registration Board
PE/PLS |
| 15 | Advance Drainage Systems | 36 | Ferguson Waterworks |
| 16 | Vaughn Concrete | 37 | RDO |
| 17 | Vaughn Concrete | 38 | CPOW |
| 18 | Aegion | 39 | ConTech |
| 19 | Carlson | 40 | Hixon Mfg |
| 20 | CST Stabilization | 41 | Hixon Mfg |
| 21 | Woolpert | 42 | Vectors |

Exhibitor Table Locations



Grand Ballroom CD
Wyoming Engineering Society

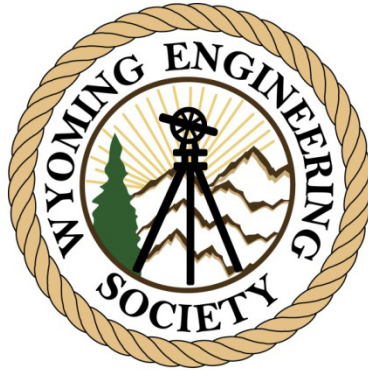
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Notes

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Thank You All For Coming!



Next Convention

*See you next year in Sheridan
February 3 & 4, 2021*

*Holiday Inn
Sheridan, Wyoming*