AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: 27 September 2012 Description:

Speaker: Paul Steinman, Chief Operations Officer with ITD

Title: Funding, Upcoming Projects, ITD today

Location: URS Executive Dining Room
720 Park Blvd.
Boise, Idaho

Duration= 1Hr

Number	Name	Employer/Organization/Status
1	Paul Michaelk	BSU
2	ANDY DALEIDEN	Kittelson & Associates, Inc.
3	Robyn Mattison	Forsgren Associates
4	Kirk Hansen	American Geotechnics
5	PAT WHITE	ASCE REGION 6
6	Josh Mann	BSU
7	Lewis Martin	BSU
8	Austin Edwards	BSU
9	JO DOHERTY	BSU - ASCE STUDENT CHAPTER
10	Gary Moles	Retired ITD
11	TODD JOHNSON	PARAMETRIX
12	Rob Gronowski	URS
13	Carl Dille	URS
14	ROD WOODHOUSE	URS.
15	DAVE BUTZIER	URS/CIP
16	JOHN SHELDON	URS
17	Matt Price	Keller Associates
18	Kyle Rosenmayer	Forsgren Associates
19	Steve Waldmyer	Forsgren
20	Rob Cleere	Lochner
21	Erin Steel	Lochner

AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: 27 September 2012 Description:

Speaker: Paul Steinman, Chief Operations Officer with ITD

Title: Funding, Upcoming Projects, ITD today

Location: URS Executive Dining Room
720 Park Blvd.
Boise, Idaho

Duration= 1Hr

Number	Name	Employer/Organization/Status
22	Russ Lodge	HDR / Associate Member
23	Rich Kinder	HDR
24	Tim Brewer	IPC
25	Sean Murphy	CH2M Hill / Member
26	Tobi See	CH2M Hill
27	Seth Olsen	GeoEngineers / Member
28	Scott McKinney	GeoEngineers
29	Lisa Vernon	Elite Edge Engineers
30	Jason Wolfe	"
31	Wayne Herbel	LHTAC
32	Vincent Poxleitner	Cottonwood Consulting Inc.
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ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: December 5, 2012 Location: URS Training Room Duration: 1 hour	Title: Boise Whitewater Park Presentation Speaker: Walt McBrier, PE, McAlvain Construction, Inc.
Description: Presentation on the recent construction of the Boise River Whitewater Park.	

Number	Name	Employer/Organization/Status
1	Walter McBrier	McAlvain
2	Kirk Hansen	American Geotechnics
3	KEVIN MURAR	MURAR ENGINEERING
4	Mike Homza	Cecengineers
5	Paul Otter	Retired CH2M Hill
6	C. W. Anderson	MK Retired
7	Tim Brewer	Idaho Power Co
8	Matt Tiedemann	UI - Grad Student/Researcher
9	Kelvin Anderson	Idaho Power
10	Scott Wood	MDR
11	Will Johnson	Studet BSU
12	Gary Moles	Retired ITD
13	ERIC CRONIN	THE LAND GROUP
14	ADAM JOHN	HDR
15	RUSS LODGE	HDR
16	John Olden	Retired
17	JAKE PARDUHN	BOISE STATE UNIVERSITY
18	Josh Mann	Boise State University
19	Liz Brown	MTI
20	Monica Sacilles	MTI
21	Lindsay Barretto	IDAHO POWER

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: December 5, 2012 Location: URS Training Room Duration: 1 hour	Title: Boise Whitewater Park Presentation Speaker: Walt McBrier, PE, McAlvain Construction, Inc.
Description: Presentation on the recent construction of the Boise River Whitewater Park.	

Number	Name	Employer/Organization/Status
22	Chris Edwards	Idaho Power
23	Robyn Mattison	Forsgren Associates
24	Brian Drake	CH2M HILL
25	Joe Young	CH2M HILL
26	Steve Clayton	CH2M HILL
27	Seth Olsen	Geo Engineers
28	ANDY DAPIER	BRATNEY COMPANIES
29	ED KOVARIK	BRATNEY COMPANIES
30	DICK JACOBSON	CH2M HILL
31	Scott Bastian	Self Employed - Looking for Work
32	Rodney Baldwin	Self Employed
33	DAVE BUTLER	URS
34	Scott Ellsworth	LHTAC
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ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

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Description: Presentation on the recent construction of the Boise River Whitewater Park.	

Number	Name	Employer/Organization/Status
1	Andy Daleiden	Kittelson & Associates, Inc.
2	VINCENT POXCEITNER	COTTONWOOD CONSULTING INC
3	L. Kent Brown	L. Kent Brown PE
4	Joseph C Keller	Joseph C Keller PE/SE
5	Katherine Waddell-Blum	Ada County Highway Dist.
6	ERIC LANDSBERG	SPF WATER ENGINEERING
7	JESS GREGORY	MSH, ENGINEER
8	Stephen Loop	Full Circle Enterprises
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ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: January 31, 2013 Location: URS Training Room Duration: 1 hour	Title: State Highway 16 Extension Project Speaker: Dave Butzier, PE (Connecting Idaho Partners - Program Manager) and Doug Camenisch, PE (Parametrix, Project Manager for SH-16 Project)
Description: Presentation on the GARVEE Transportation Program and State Highway 16 Extension project	

Number	Name	Employer/Organization/Status
1	Terry Liffle	ACHD
2	Andy Dalerden	Kittelson & Assoc.
3	Paul Michael	BSU
4	Kirk Hansen	American Geotechnics
5	Robert Cleere	HW Lochner
6	PAUL WASSON	GeoEngineers, Inc.
7	Gary Moles	ITD retired
8	Greg Holder	David Evans & Associates
9	Mark Fielding	TERRACON
10	GREG TADDICKEN	TERRACON
11	SAM LARRONDO	—
12	Jayson Buehler	Terracon
13	Jason Densmer	The Land Group
14	ERIC CRONIN	THE LAND GROUP
15	Ryan Olsen	Terracon
16	Tim Brewer	Idaho Power
17	JAKE PARDUHAN	BSU
18	TIM DEWEESE	
19	JOSH MANN	
20	LEWIS MARTIN	

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: January 31, 2013 Location: URS Training Room Duration: 1 hour	Title: State Highway 16 Extension Project Speaker: Dave Butzier, PE (Connecting Idaho Partners - Program Manager) and Doug Camenisch, PE (Parametrix, Project Manager for SH-16 Project)
Description: Presentation on the GARVEE Transportation Program and State Highway 16 Extension project	

Number	Name	Employer/Organization/Status
21	JO DOHERTY	↓
22	AUSTIN EDWARDS	↓
23	LINDAN ITCHEK	DAVID EVANS
24	Robert Hamilton	BSU
25	Matt Degen	Parametrix
26	Jim Koepnow	Parametrix
27	Garrick Nelson	Parametrix
28	L. Kent Brown	L. Kent Brown PE
29	Zach Piepmeyer	HDR Engineering
30	[illegible]	HDR Engineering
31	JASON WOLFE	ELITE EDGE ENGINEERS
32	CHRIS LYNCH	MEMBER
33	Matt Price	Keller Associates
34	Kyle Meschko	Keller Associates
35	Robyn Mathison	Forsgren Associates
36	Kevin Kuther	Parametrix
37	Brian Wright	Parametrix
38	Stephen Loop	Full Circle Enterprises
39	DICK JACOBSON	CH2M HILL
40	HEIDI CARTER	URS

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: January 31, 2013 Location: URS Training Room Duration: 1 hour	Title: State Highway 16 Extension Project Speaker: Dave Butzier, PE (Connecting Idaho Partners - Program Manager) and Doug Camenisch, PE (Parametrix, Project Manager for SH-16 Project)
Description: Presentation on the GARVEE Transportation Program and State Highway 16 Extension project	

Number	Name	Employer/Organization/Status
41	Jay Williams	CES
42	Angela Parra	Ada County
43	Paul Otter	Ret
44	Christopher Andrews	URS
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ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: January 31, 2013 Location: URS Training Room Duration: 1 hour	Title: State Highway 16 Extension Project Speaker: Dave Butzier, PE (Connecting Idaho Partners - Program Manager) and Doug Camenisch, PE (Parametrix, Project Manager for SH-16 Project)
Description: Presentation on the GARVEE Transportation Program and State Highway 16 Extension project	

Number	Name	Employer/Organization/Status
1	Seth Olsen	GeoEngineers
2	Braydan DuRee	GeoEngineers
3	Paul Wasser	GeoEngineers
4	TIM BLAIR	J-U-B ENGINEERS INC.
5	Jim Porter	J-U-B
6	Matt Fieldin	Terracon
7	Clair Waite	Terracon
8	BRUCE HARPAL	URS
9	Robert Cleere	HW Lochner
10	RUSTY LEAHY	DEA
11	Chad Karns	DEA
12	Jayson Buechler	Terracon
13	GREG TADDICKEN	TERRACON
14	CHRISTOPHER ANDREWS	URS
15	Amy Schroeder	ITD
16	Marc Danley	ITD
17	Ryan Olsen	Terracon
18	Zach Piepmeyer	HDR Engineering
19	Matt Degen	Parametrix
20	Jon Koopman	Parametrix

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: January 31, 2013 Location: URS Training Room Duration: 1 hour	Title: State Highway 16 Extension Project Speaker: Dave Butzier, PE (Connecting Idaho Partners - Program Manager) and Doug Camenisch, PE (Parametrix, Project Manager for SH-16 Project)
Description: Presentation on the GARVEE Transportation Program and State Highway 16 Extension project	

Number	Name	Employer/Organization/Status
21	Garrick Nelson	Parametrix
22	Brian Wright	Parametrix
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ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS/WTS Treasure Valley Chapter Joint Meeting

Date: February 21, 2013 Location: URS Executive Dining Room Duration: 1 hour	Title: 8th and Main Building Project Speaker: David Bowar (Sr Project Manager/Project Executive with Engineered Structures, Inc.) and Eric Packer (Structural Engineer with CTA)
Description: Presentation on the 8th and Main Building currently being constructed in Downtown Boise	

Number	Name	Employer/Organization/Status
1	Chad Michaels	BSU
2	Lewis Mardon	BSU
3	Doug Argo	Holladay Eng.
4	Katherine Muirin Waddell	ACHD
5	Robyn Mattison	Forsgren Associates
6	John Olden	Retired
7	Braydon Dukes	GeoEngineers
8	Kirk Hansen	American Geotechnics
9	Michael W. Morrison	BSU Student
10	Tim Brewer	Idaho Power
11	Matt Price	Keller Associates
12	Kyle Meschke	Keller Associates
13	Scott Wood	MDR
14	Melissa Hennessy	HDR
15	Stephen Loop	Full Circle Enterprises
16	Paul Offer	
17	Robert Cleere	Lochner
18	Craig Kjar	Gen Quest
19	L. Kent Brown	L. Kent Brown PE
20	Ryan Olson	Terracon

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS/WTS Treasure Valley Chapter Joint Meeting

Date: February 21, 2013 Location: URS Executive Dining Room Duration: 1 hour	Title: 8th and Main Building Project Speaker: David Bowar (Sr Project Manager/Project Executive with Engineered Structures, Inc.) and Eric Packer (Structural Engineer with CTA)
Description: Presentation on the 8th and Main Building currently being constructed in Downtown Boise	

Number	Name	Employer/Organization/Status
21	Monica Saculles	MTI
22	Liz Brown	MTI
23	ERIC CROWLEY	THE LAND GROUP
24	Robert Hamilton	BSU
25	Jay Williams	CES
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ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS/WTS Treasure Valley Chapter Joint Meeting

Date: February 21, 2013 Location: URS Executive Dining Room Duration: 1 hour	Title: 8th and Main Building Project Speaker: David Bowar (Sr Project Manager/Project Executive with Engineered Structures, Inc.) and Eric Packer (Structural Engineer with CTA)
Description: Presentation on the 8th and Main Building currently being constructed in Downtown Boise	

Number	Name	Employer/Organization/Status
1	Andy Dalgleish	Kittelson & Assoc.
2	Joe A. Baughman	Retired
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AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: 16 May 2013

Description: ASCE Monthly Meeting with ISPE
Speaker: G. Christensen / Marva Schwager
Title: Technical Tour: Banner Bank Building LEED Platinum

Location: Banner Bank
950 W. Bannock Street
Boise, Idaho

Duration: 1 Hr

Number	Name	Employer/Organization/Status
1	Carl Michaels	BSU / ASCE
2	Gary Moles	retired FTD
3	Craig Kjar	retired
4	Seth Olsen	GeoEngineers
5	Chris Edwards	Idaho Power Co.
6	Kirk Hansen	American Geotechnics
7	Paul Derr	Student BSU
8	Eric Swander	Idaho Power
9	Rebecca Mirsky	Boise State
10	Matt Blandford	Elite Edge
11	Steve Mickelsen	IPCo
12	Matt Tiedemann	U-Idaho
13	RICHARD FRITZLEY	BOISE INC
14	Russell Bridges	Boise State University
15	JEREMY WILSON	KELLER ASSOCIATES
16	REX HANSEN	AMERICAN GEOTECHNICS
17	John Hart	Self
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ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: September 19, 2013 Location: URS Training Room Duration: 1 hour	Title: Continuing Professional Development from the Idaho Board of Licensure Speaker: Keith A. Simila P.E. and Jim Szatkowski of the Idaho Board of Licensure of Professional Engineers and Professional Land Surveyors
Description: A presentation on continuing professional development for professional engineers and professional land surveyors	

Number	Name	Employer/Organization/Status
1	Paul Michaels	BSU
2	Kirk Hansen	American Geotechnics
3	Ryan Van Leuven	American Geotechnics
4	Braydan DuRee	GeoEngineers
5	Scott Wood	HDR
6	Gary Moler	Retired
7	Karen Doherty	HDR
8	Justin Stoffel	American Geotechnics
9	Christopher Andrews	URS
10	Chris Edwards	Idaho Power Co
11	Loren Thomas	ITD
12	Jim Baker	URS
13	Mike Morrison	Student/BSU
14	L. Kent Brown	L. Kent Brown PE
15	Katherine Waddell	ACHD
16	Stephen Loop	Full Circle Enterprises
17	Cheryl Murray	HDR
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ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: October 17, 2013 Location: URS Training Room Duration: 1 hour	Title: What the CRIP? Speaker: Braydan P. DuRee, PE of GeoEngineers

Description: Braydan will present a story of innovation showing how a contractor received a change order using a cost reduction incentive proposal (CRIP) for the I-90 Snoqualmie Pass East project. The CRIP replaces a large Snowshed structure designed by Washington State DOT with a pair of avalanche bridges designed by the contractor and is estimated to save WSDOT $48 million in life-cycle operations and maintenance costs, provide an additional wildlife crossing, and reduce the amount of winter closures needed for avalanche control.

Number	Name	Employer/Organization/Status
1	Chris Edwards	Idaho Power
2	Brandon McGoldrick	IPC
3	Emily Strong	Centra
4	ERIC CRONIN	THE LAND GROUP
5	Kathy Murin	ACHD
6	L. Kent Brown	LKent Brown PE
7	Kirk Hansen	American Geotechnics
8	Braydon DuRee	~~Bra~~ GeoEngineers
9	Marcus Byers	Klenfelder
10	Gary Moles	Retired
11	Paul Michaels	BSU
12	Stephen Loop	Full Circle Enterprises
13	Jay Williams	Cascade Earth Sciences
14	Ryan Van Leuven	American Geotechnics
15	Kevin Hoagland	Terracon
16	Luke Rowley	BSU Student Chapter
17	Lauren Nuxoll	BSU Student Chapter

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: October 17, 2013 Location: URS Training Room Duration: 1 hour	Title: What the CRIP? Speaker: Braydan P. DuRee, PE of GeoEngineers

Description: Braydan will present a story of innovation showing how a contractor received a change order using a cost reduction incentive proposal (CRIP) for the I-90 Snoqualmie Pass East project. The CRIP replaces a large Snowshed structure designed by Washington State DOT with a pair of avalanche bridges designed by the contractor and is estimated to save WSDOT $48 million in life-cycle operations and maintenance costs, provide an additional wildlife crossing, and reduce the amount of winter closures needed for avalanche control.

Number	Name	Employer/Organization/Status
18	Paul Otter	
19	Jayson Buchholz	Terracon
20	Robert Hamilton	BSU
21	Joe Runyan	Intermountain Gas
22	Matt Price	Keller Associates
23	Kyle Meschko	Keller Associates
24	Jeremy Wilson	Keller Associates
25	Tim Brewer	Idaho Power Co
26	Paul Derr	Student/BSU
27	Ryan Olsen	Terracon
28	Seth Olsen	GeoEngineers
29	Scott Ellsworth	LHTAC
30	Vincent Poxleitner	Cottonwood Consulting
31	Gary Groff	URS
32	DICK JACOBSON	CH2M HILL
33	DAVE BUTZIER	URS
34	Andy Dakiden	Kittelson & Assoc.

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: January 16, 2014 Location: URS Training Room Duration: 1 hour	Title: Energy Dissipation Hoods Speaker: Gregory Clark, PE (MWH)

Description: **Energy Dissipation Hoods (EDH)** for the purpose of dissipating velocity head at Fixed Cone Valves. The discussion includes the mode of failure of the existing outlet structure as well as geometric requirements and functionality of hooded baffles. Results from a physical model conducted at Utah State University as well as a Finite Element Model (FEM) for analyzing internal stresses will be presented.

Number	Name	Employer/Organization/Status
1	Braydan DuRee	GeoEngineers
2	VINCENT POXLEITNER	COTTONWOOD CONSULTING
3	Steve Hannula	MWH Global
4	Tim Brewer	IPC
5	Kelvin Anderson	IPC
6	Chris Edwards	IPC
7	Paul Otter	Ret.
8	Seth Olsen	GeoEngineers
9	Ryan Van Leuven	American Geotechnics
10	Paul Michaels	BSU
11	Kalli Everhart	MWH
12	Matt Shroll	MWH
13	DAVID IRISH	HDR
14	PIERSON DEWITT	ACHD
15	Kirk Hansen	American Geotechnics
16	Stephen Loop	Full Circle Enterprises
17	Gary Groff	URS

Emily Aroso — Centra Consulting
Andy Daleiden — Kittelson & Assoc.

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: February 20, 2014 Location: URS Training Room Duration: 1 hour	Title: Geosynthetic Reinforced Soil Integrated Brudte Systems (GRS-IBS) Speaker: Stanley G. Crawforth, PE (American Geotechnics)

Description: FHWA's new design manual for **Geosynthetic Reinforced Soil-Integrated Bridge Systems** (GRS-IBS). FHWA estimates that this new technology will save 40 to 60 percent of the cost of small bridges (single-spans less than 140 feet). IBS technology has been deployed as part of the Federal Highway Administration's "Every Day Counts" initiative for accelerated bridge construction. IBS technology "was initially developed by FHWA during the Bridge of the Future initiative to help meet the demand for the next generation of small, single span bridges in the United States." – Federal Highway Administration

Number	Name	Employer/Organization/Status
1	Paul Michaels	BSU
2	Braydan DuRee	GeoEngineers
3	Kirk Hansen	American Geotechics
4	Michael W. Morrison	Self/BSU
5	DAVID IRISH	HDR
6	Lauren Nuxoll	BSU Student Chapter
7	BRENT INGHRAM	FHWA
8	Chris Edwards	IPCO
9	BRANDON McGOLDRICK	IPC
10	Joe Tate	ACHD
11	JUSTIN STOFFEL	American Geotechnics
12	SEAN MURPHY	CH2M HILL
13	Jason Taylor	Boise City P.W.
14	Jim Wyllie	Boise City Parks
15	MIKE SLEGERS	HDR
16	ERIC CRONIN	THE LAND GROUP, INC.
17	Joe Baughman	Myself

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: February 20, 2014 Location: URS Training Room Duration: 1 hour	Title: Geosynthetic Reinforced Soil Integrated Brudte Systems (GRS-IBS) Speaker: Stanley G. Crawforth, PE (American Geotechnics)
Description: FHWA's new design manual for **Geosynthetic Reinforced Soil-Integrated Bridge Systems** (GRS-IBS). FHWA estimates that this new technology will save 40 to 60 percent of the cost of small bridges (single-spans less than 140 feet). IBS technology has been deployed as part of the Federal Highway Administration's "Every Day Counts" initiative for accelerated bridge construction. IBS technology "was initially developed by FHWA during the Bridge of the Future initiative to help meet the demand for the next generation of small, single span bridges in the United States." – Federal Highway Administration	

Number	Name	Employer/Organization/Status
18	KIMBALL OHSIEK	CH2M HILL / YES
19	DAVID BAILEY	CH2M HILL INC
20	Jay Williams	Cascade Earth Sciences
21	Lisa Vernon	Elite Edge Engineers
22	Seth Olse	GeoEngineers
23	Scott McKinney	GeoEngineers
24	PIERSON DEWITT	ACHD
25	L. Kent Brown	L Kent Brown PE
26	Justin Schwalbe	H.W. Lochner
27	Don Vander Boegh	Vander Boegh Engineering
28	RICHARD FRITZLEY	/ / PE
29	Stephen Loop	Full Circle Enterprises / Yes
30	Ryan Van Leuven	American Geotechnics
31	Tim Brewer	Idaho Power Co
32	Ryan Olsen	Terracon
33	Clair Waite	Terracon
34	Rob Cleere	Lochner

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: February 20, 2014 Location: URS Training Room Duration: 1 hour	Title: Geosynthetic Reinforced Soil Integrated Brudte Systems (GRS-IBS) Speaker: Stanley G. Crawforth, PE (American Geotechnics)
Description: FHWA's new design manual for **Geosynthetic Reinforced Soil-Integrated Bridge Systems** (GRS-IBS). FHWA estimates that this new technology will save 40 to 60 percent of the cost of small bridges (single-spans less than 140 feet). IBS technology has been deployed as part of the Federal Highway Administration's "Every Day Counts" initiative for accelerated bridge construction. IBS technology "was initially developed by FHWA during the Bridge of the Future initiative to help meet the demand for the next generation of small, single span bridges in the United States." – Federal Highway Administration	

Number	Name	Employer/Organization/Status
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ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting in Eastern Idaho

Date: March 19, 2014 Location: Pizza Pie Café, Ammon Idaho Duration: 1 hour	Title: Memorial Drive Improvement Project Speaker: Kent J. Fugal, PE, PTOE (Idaho Falls City Engineer)

Description: A presentation on the recent **Memorial Drive Improvements project** in Idaho Falls. Key features of the project included narrowing the roadway width by about 50 feet, eliminating parking in the median and on west side of the street, replacing a traffic signal with a modern roundabout, water and sewer replacements, extensive underground storm drainage improvements, addition of a parking lot, LED lighting, electrical system upgrades, and Idaho Falls' first use of "sharrows." The presentation will include discussion of the history and purpose of the project, its key features, and its innovative aspects.

Number	Name	Employer/Organization/Status
1	Kelly Hoopes	Horrocks
2	Braydan DuRee	GeoEngineers
3	Bryan Young	ITD
4	Wade allen	ITD
5	Telisha Fivas	BYU-I
6	Noé H. Morales	BYU-Idaho
7	Odimaa Gaav	BYU-Idaho
8	Zolboo Baatar	BYU-Idaho
9	Nathan Harris	BYU-Idaho
10	John Gilmore	DOE-ID
11	NATHAN SMITH	Retired
12	ROB KELLER	IDWR - WDI
13	KEVIN HINKLEY	2KS CONSULTING
14	Deb Hinkley	2KS consulting
15	DAVID ALVAREZ	ITD
16	JUSTIN BEARD	FORSGREN ASSOCIATES
17	AARON SWENSON	

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting in Eastern Idaho

Date: March 19, 2014 Location: Pizza Pie Café, Ammon Idaho Duration: 1 hour	Title: Memorial Drive Improvement Project Speaker: Kent J. Fugal, PE, PTOE (Idaho Falls City Engineer)
Description: A presentation on the recent **Memorial Drive Improvements project** in Idaho Falls. Key features of the project included narrowing the roadway width by about 50 feet, eliminating parking in the median and on west side of the street, replacing a traffic signal with a modern roundabout, water and sewer replacements, extensive underground storm drainage improvements, addition of a parking lot, LED lighting, electrical system upgrades, and Idaho Falls' first use of "sharrows." The presentation will include discussion of the history and purpose of the project, its key features, and its innovative aspects.	

Number	Name	Employer/Organization/Status
18	BILL SHAKI	IDAHO TRANSPORTATION D.
19 ✓	JIM LAWRENCE	BYU-IDAHO
20 ✓	Aaron Swenson	Forsgren Associates
21	Tari Machanzi	BYU-IDAHO
22 ✓	Blake Jolley	Harper-Leavitt Eng.
23 ✓	Luke Jolley	Harper-Leavitt Eng
24 ✓	Lance Bates	City of Ammon
25 ✓	DAVID WRIGHT	BYU-IDAHO
26	Preston Merrill	BYU-Idaho
27 ✓	David Richards	City of Idaho Falls
28 ✓	CARL VERMILLION	BYU-IDAHO
29 ✓	Jaron Burnside	Mullen Crane - Soda Springs
30 ✓	Steven Beveley	BYU-Idaho
31 ✓	JEREMY CHU	BYU-Idaho
32 ✓	JAKE DUSTIN	CONSULTANT
33 ✓	Chris Campbell	I.F. City / Asst. P.W.D.
34 ✓	Kent Fugal	I.F. City / City Engineer

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting in Eastern Idaho

Date: March 19, 2014 Location: Pizza Pie Café, Ammon Idaho Duration: 1 hour	Title: Memorial Drive Improvement Project Speaker: Kent J. Fugal, PE, PTOE (Idaho Falls City Engineer)
Description: A presentation on the recent **Memorial Drive Improvements project** in Idaho Falls. Key features of the project included narrowing the roadway width by about 50 feet, eliminating parking in the median and on west side of the street, replacing a traffic signal with a modern roundabout, water and sewer replacements, extensive underground storm drainage improvements, addition of a parking lot, LED lighting, electrical system upgrades, and Idaho Falls' first use of "sharrows." The presentation will include discussion of the history and purpose of the project, its key features, and its innovative aspects.	

Number	Name	Employer/Organization/Status
35	Wes King	BYU-I
36	Jeff Freiberg	Freiburg
37	Jeanne Mahan	Keller
38	Kade Raymond	IDWR
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ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting in Eastern Idaho

Date: March 20, 2014 Location: 8th & Main, Boise Idaho Duration: 1 hour	Title: New Zion's Bank (8th & Main) Building Tour Speaker: David Bowar (Engineering Structures, Inc.)

Description: **David Bowar** of Engineering Structures, Inc. (ESI) will lead a tour of the recently completed **Zion's Bank Building (8th & Main building)** in downtown Boise, Idaho. The recently completed Zion's bank building is now the tallest building in Idaho. The tour will include discussions of challenges and successes during design and construction of the new building and a close-up look at the finished structure. We appreciate the Gardner Company for facilitating the tour. Due to limited amount of space we are asking members to RSVP for this event as there is a maximum group size of 30 people for the tour. Please RSVP by responding to this email.

Number	Name	Employer/Organization/Status
1	Paul Mischnick	RSU
2	Braydan Durfee	GeoEngineers
3	Kirk Hansen	American Geotechnics.
4	REX HANSEN	AMERICAN GEOTECHNICS
5	Meghann Donley	HDR
6	BRENT INGHRAM	FHWA
7	BRANDON MCGOLDRICK	IDAHO POWER
8	Craig Kjar	retired
9	Andy Daleiden	Kittelson & Associates
10	RICHARD FRITZLEN	SELF EMPLOYED
11	Zach Piepmeyer	HDR Engineering
12	GRAE HARPER	US ECOLOGY IDAHO, INC.
13	RUSS LODGE	HDR
14	LANCE LOMSEN	FHWA
15	Sam Emmons	HDR
16	Nick McDowell	HDR
17	JESSE TATUM	HDR
18	MARK K. CLOUGH	DEQ

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting in Eastern Idaho

Date: March 20, 2014 Location: 8th & Main, Boise Idaho Duration: 1 hour	Title: New Zion's Bank (8th & Main) Building Tour Speaker: David Bowar (Engineering Structures, Inc.)

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Number	Name	Employer/Organization/Status
19	Chris Edwards	Idaho Power
20	Ken Colson	Parametrix
21	Angela Gilman	Ada County
22	Lucas Blauser	THE LAND GROUP
23	Stephen Loop	Full Circle Enterprises
24	Donell Fluckiger	Fluckiger Consulting
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ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting in Eastern Idaho

Date: April 15, 2014 Location: Pizza Pie Café, Ammon Idaho Duration: 1 hour	Title: Speaker: John Stone

Number	Name	Employer/Organization/Status
1	Kelly Hoopes	HORROCKS ENGRS
2	John Stone	Horrocks Engrs
3	Marvin Fielding	Keller Associates
4	Mike Arneson	J-U-B Engineers
5	Lance Bates	City of Ammon
6	Jim Lawrence	BYU - Idaho
7	Michael McKee	Idaho Transportation Department
8	Chuck Bergstrom	American Geotechnics
9	Kent Fugal	City of Idaho Falls
10	John Gilmore	US DOE
11	Syd withers	retired (was CWI)
12	Riley Bradshaw	Keller Associates
13	David Richards	City of Idaho Falls
14	Justin Beard	Forsgren Associates
15	David Alvarez	ITD
16	Jeanne Mecham	Keller Associates

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting in Eastern Idaho

Date: April 15, 2014 Location: Pizza Pie Café, Ammon Idaho Duration: 1 hour	Title: Speaker: John Stone

Number	Name	Employer/Organization/Status
17	Don Mecham	Retired ITD
18	Aaron Swenson	Forsgren Associates
19	JAKE DUSTIN	CONSULTANT
20	Chris Canfield	Idaho falls
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ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: May 15, 2014 Location: URS Training Room, Boise, ID Duration: 1 hour	Title: Broadway Avenue Bridge Speaker: David Butzier, PE (URS/Connecting Idaho Partners)

Description: A presentation on the Broadway Avenue Bridge project. The project will widen Broadway Avenue to 3 lanes in each direction with wider sidewalks on both sides and improved connections with the Greenbelt. The project is planned for reconstruction starting after the last BSU football game of the 2015 season and is planned to be completed before the opening game of the 2016 football season. There has been a lot of stakeholder input to the project for what the bridge should look like. The project has just completed the Preliminary Design phase.

Number	Name	Employer/Organization/Status
1	Braydon DuRee	GeoEngineers
2	Kirk Hansen	American Geotechnics
3	Scott McKinney	GeoEngineers
4	Kevin Haglund	Terracon
5	Paul Michael	BSU
6	Rick Sullivan	Idaho Power
7	Ryan Olsen	Terracon
8	Jayson Buchholz	Terracon
9	Brandon McGoldrick	Idaho Power
10	Chris Edwards	Idaho Power
11	Dave O'Day	O'Day Consulting
12	L. Kent Brown	L. Kent Brown PE
13	Robert Hamilton	BSU
14	Lauren Nuxoll	BSU Student Chapter
15	West Velpel	BSU student
16	Nathan Balcirak	BSU Student
17	Eric Cronin	The Land Group

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: May 15, 2014 Location: URS Training Room, Boise, ID Duration: 1 hour	Title: Broadway Avenue Bridge Speaker: David Butzier, PE (URS/Connecting Idaho Partners)
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Number	Name	Employer/Organization/Status
18	GRAE HARPER	US ECOLOGY IDAHO
19	PETE BAIR	ExxonMobil / Retired
20	Ken Clausen	ITD
21	Camron Sobotka	ITD
22	Don Vander Boegh	Vander Boegh Engineering
23	Katherine Waddell	ACHD
24	Willrice	ASCE student President
25	Colbyn Cools	ASCE student Liason officer
26	CHRISTOPHER ANDREWS	URS
27	KIMBALL OHSIEK	CH2M HILL
28	Gary Groff	URS
29	Kelvin Anderson	IPC
30	Tim Brewer	IPC
31	Joe Runyan	Intermountain Gas Co.
32	PAUL WASSOR	GeoEngineers, Inc.
33	P. W. Anderson	CW Anderson & Assoc
34	Ken Colson	Parametrix

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: May 15, 2014 Location: URS Training Room, Boise, ID Duration: 1 hour	Title: Broadway Avenue Bridge Speaker: David Butzier, PE (URS/Connecting Idaho Partners)

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Number	Name	Employer/Organization/Status
35	Andy Oakleaf	Kittelson & Assoc.
36	Mike Morrison	BSU
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East Idaho ASCE Meeting

total people attending: 45

Sign In Sheet

Time: May 20, 2014 Noon

	Name	Company	E-mail address
1	Aaron Swenson	Forsgren	aswenson@forsgren.com
2	Justin Beard	Forsgren	jbeard@forsgren.com
3	Brandon Harris	Fremont County	bharris@co.fremont.id.us
4	Eric HAINES	STUDENT BYU-I	haid0005@byui.edu
5	Preston Merrell	BYU-Idaho	
6	Telisha Fivas	BYU-I & Walsh Eng	
7	Kelly Hoopes	HORROCKS	kellyh@horrocks.com
8	Jed-Jason Ramos	BYU-I	ram13011@byui.edu
9	BILL SHAW	ITD	BILL.SHAW@ITD..
10	Nathan Harris	BYU-I	harrisn@byui.edu
11	Eric Stoddard	BYU-I	[illegible]
12	Arya Ebrahimpour	ISU	ebraarya@isu.edu
13	BRUCE SAVAGE	ISU	SAVABRUC@ISU.EDU
14	Riley Bradshaw	Keller Associates	rbradshaw@kellerassociates.com
15	Noe H. Morales	BYU-I	noe.moralesiozz@gmail.com
16	Jeanne Meacham	Keller Assoc.	jmeacham@kellerassociates.com
17	Skyler Allen	Keller Associates	sallen@kellerassociates.com
18	DAVID WRIGHT	BYU-I	DAVIDWRIGHT2006@ME.COM
19	MARVIN FIELDING	KELLER ASSOCIATES	mfielding@kellerassociates.com
20	Luke Jolley	HLE	lukej@hleinc.com
21	Blake Jolley	HLE	bjolley@hleinc.com
22	REX W. HANSEN	AMERICAN GEOTECHNICS	RHansen@AmericanGeotechnics.com
23	Troy Lindsay	STRATA	tlindsay@stratageotech.com
24	MITCH QUICK	STRATA	MQUICK@STRATAGEOTECH.COM
25	Jaron Burnside	Mullen Crane	jaron.burnside@mcsg.com
26	Travis Wambeke	STRATA	twambeke@stratageotech.com
27	JAKE DUSTIN	SELF	herc17@gmail.com
28	JEFF MANSFIELD	CITY OF POCATELLO	jmansfield@pocatello.us
29	Gerald Williams	Williams Engr	gwilliams@grwei.com
30	JIM LAWRENCE	BYU-IDAHO	jlawrence736@msn.com

31	MARCUS LORRELL	NONE	WATMINE@GMAIL.COM
32	ANDREW VARGAS	STUDENT BYU-I	andvargas09@gmail.com
33	Kevin Hinkley	2KS Consulting	Khinkley@2KS-consulting.com
34	Deb Grove	"	dgrove@2KS-consulting.com
35	MIKE ARNESON	J-U-B ENGR	Marneson@JUB.com
36	CHRIS CANFIELD	IDAHO FALLS	
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Southern Idaho Section – ASCE Meeting in Eastern Idaho

DATE: **Tuesday, September 16th, 2014**

TIME: **12:00 to 1:00 pm**

LOCATION: **Pizza Pie Café, 3160 E 17th St., Ammon, Idaho**

SUBJECT: We are pleased to have **Mike Arneson, PE**, of J-U-B Engineers present on Regional **Infrastructure Planning - 5 key elements that made the Chubbuck Northwest Sewer Collection Project a success.** The presentation will cover a large, regional wastewater collection project in Bannock County just north of Chubbuck. Phase 1 of the project was recently completed consisting of 6 miles of gravity sewer lines, 3 miles of sewer force mains, and two regional lift stations. The presentation will summarize the steps that were taken to identify the project, assess its feasibility, and plan for its implementation, funding, and construction. The presentation will discuss unique issues associated with the large-scale project and how those issues were handled to keep the project moving forward to a successful outcome.

Sign-In Sheet

1.	KEVIN HINKLEY	E-Mail:	khinkley@2ks-consulting.com
2.	Telisha Fivas	E-Mail:	telishamarie@hotmail.com
3.	John Gilmore	E-Mail:	jp.gilmore@hotmail.com
4.	Karl Hugo	E-Mail:	HugoKJ@id.doe.gov
5.	MARCUS WORREL	E-Mail:	WATHMC@GMAIL.COM
6.	Nathan Harris	E-Mail:	harrisn@byui.edu
7.	JIM LAWRENCE	E-Mail:	jlawrence736@msn.com
8.	WES KINGS	E-Mail:	KINGS015@BYUI.edu
9.	Kelsey Stuhltrager	E-Mail:	KStuhltrager@gmail.com
10.	Robert Keller	E-Mail:	Robert.Keller@id.wr.idaho.gov
11.	DAVID WRIGHT	E-Mail:	DAVIDWRIGHT200@MSN.com
12.	JEREMY CHILD	E-Mail:	chi12023@BYUI.edu
13.	MICHAEL ADAMS	E-Mail:	michaela@horrocks.com
14.	CARL VERMILLION	E-Mail:	VER09007@BYUI.EDU
15.	Keith Sheets	E-Mail:	keiths@horrocks.com
16.	Clint Boyle	E-Mail:	clintb@horrocks.com
17.	Kyle DeVaney	E-Mail:	old_gto@hotmail.com
18.	Jacob Cafarsky	E-Mail:	gra12027@byui.edu
19.	Scott McMullin	E-Mail:	mcmullsr@gmail.com
20.	Cory Hafen	E-Mail:	haf00001@byui.edu
21.	Curtis Calderwood	E-Mail:	Cal07017@byui.edu
22.	Taylor Fisher	E-Mail:	wtfisher7@gmail.com
23.	Brandon Harris	E-Mail:	bharris@co.fremont.id.us
24.	JAKE DUSTIN	E-Mail:	bevc17@gmail.com
25.	Kevin Harris	E-Mail:	kharris@forsgren.com

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26.	Justin Beard	E-Mail:	jbeard@forsgren.com
27.	Bill Shaki	E-Mail:	ON FILE
28.	Bruce Savage	E-Mail:	SAVABRUC@ISU.EDU
29.	Aaron Swenson	E-Mail:	aswenson@forsgren.com
30.	Kent Fugal	E-Mail:	kfugal@idahofalls.idaho.gov
31.	Chris Canfield	E-Mail:	ccanfield@idahofalls.idaho.gov
32.	Paul Smarr	E-Mail:	PSmarr@COJEFFERSON.ID.US
33.	Blake Jolley	E-Mail:	bjolley@hleinc.com
34.	Kelly Hoopes	E-Mail:	kellyh@horrocks.com
35.		E-Mail:	
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ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: September 25, 2014 Location: URS Training Room Duration: 1 hour	Title: ASCE Initiatives and Region 8 Updates Speaker: Darren Hippenstiel is our ASCE Region 8 governor.
Description: Darren will swear in new officers, as well as present on ASCE initiatives and provide updates on Region 8.	

Number	Name	Employer/Organization/Status
1	Kirk Hansen	US Ecology
2	Todd Johnson	Parametrix
3	Corbyn Cods	BSU student
4	Brendon Collins	BSU Student
5	Andrew White	BSU Student
6	Lauren Nuxoll	Kittelson
7	West Volpei	BSU student
8	Paul Michaels	BSU
9	L. Kent Brown	L. Kent Brown PE
10	DICK JACOBSON	CH2M HILL
11	SEAN MURPHY	CH2M HILL
12	ANDY DALEIDEN	Kittelson & Assoc.
13	Seth Olsen	Cartwright
14	Ryan Van Leuven	American Geotechnics
15	GRAE HARPER	US ECOLOGY IDAHO, INC.
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Southern Idaho Section – ASCE Meeting in Eastern Idaho

DATE: **Tuesday, October 21st, 2014**

TIME: **12:00 to 1:00 pm**

LOCATION: **Pizza Pie Café, 3160 E 17th St., Ammon, Idaho**

COST: **Free**

SUBJECT: We are pleased to have **Jesse Barrus** of ITD District 5 present on the award winning **Diverging Diamond Interchange (DDI) in Chubbuck Idaho.** The project was a unique to Idaho because it is the first DDI designed and built in the state, but it also boasts uniqueness around the country being the first DDI to accommodate oversized loads. This presentation will explore the many benefits of a DDI to the area, the challenges both in design and construction, how it is operating today, and some of the lessons learned thru the process. This project was awarded the OCEA project of the year award by ASCE-SIS last spring.

1. Kelly Hoopes · E-Mail: kellyh@horrocks.com
2. Robert Keller · E-Mail: robert.keller@itd.idaho.gov
3. Scott McMullin · E-Mail: mcmullsr@id.doe.gov
4. MIKE ARNESON · E-Mail: marneson@JUB.COM
5. JUSTIN BEARD · E-Mail: jbeard@forsgren.com
6. John Gilmore · E-Mail: jp.gilmore@hotmail.com
7. Aaron Swenson · E-Mail: aswenson@forsgren.com
8. Bill Shaw · E-Mail: OFFICE
9. Craig Chandler · E-Mail: Craig.Chandler@idwr.idaho.gov
10. JAKE DUSTIN · E-Mail: herc17@gmail.com
11. Kent Fugal · E-Mail: kfugal@idahotalk.idaho.gov
12. Leith Sheets · E-Mail: leiths@horrocks.com
13. Jesse Barrus · E-Mail: jesse.barrus@itd.idaho.gov
14. John Stone · E-Mail: johnst@horrocks.com
15. _____ E-Mail: _____
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Southern Idaho Section – ASCE Meeting in Eastern Idaho

DATE: **Tuesday, January 20, 2015**

TIME: **12:00 to 1:00 pm**

LOCATION: Engineering Research Center (ERC), Corner of South 2nd Ave and Putnam Street, Pocatello, Idaho.

SUBJECT: The Department of Civil and Environmental Engineering at Idaho State University would like to invite you to come and learn more about our program and research. An overview will be presented along with an introduction of the faculty. Students will discuss their senior design projects and plans to host the 2015 Pacific Northwest ASCE Student Conference will be outlined.

Sign-In Sheet

1.	Kyle Parker	E-Mail:	parKKyle@isu.edu
2.	Greg Roberts	E-Mail:	robegre2@isu.edu
3.	Javier Ramirez	E-Mail:	ramijavi7@gmail.com
4.	Colton Bedke	E-Mail:	bedkcolt@isu.edu
5.	Rocky Benedetti	E-Mail:	benerock@isu.edu
6.	Eric Tolman	E-Mail:	tolmeric@isu.edu
7.	Maximilian Casanova	E-Mail:	casamaxi@isu.edu
8.	JUSTIN BEARD	E-Mail:	jbeard@forsgren.com
9.	JAKE DUSTIN	E-Mail:	herc17@gmail.com
10.	Bo Hurlburt	E-Mail:	hurlmarc@isu.edu
11.	Hamad Alvabie	E-Mail:	alvahama@isu.edu
12.	Saleh H. Alshaiban	E-Mail:	alshsale@isu.edu
13.	Jaron Burnside	E-Mail:	jaron.burnside@necsg.com
14.	Bridger Morrison	E-Mail:	bmorrison@jub.com
15.	JORDAN PARKER	E-Mail:	jparker@jub.com
16.	Kent Fugal	E-Mail:	kfugal@idahotalkidaho.gov
17.	Chris Canfield	E-Mail:	ccanfield@idahofalls.idaho.gov
18.	MICHAEL ADAMS	E-Mail:	michaela@horrocks.com
19.	BRIAN LEH	E-Mail:	brianl@horrocks.com
20.	Kelly Heapes	E-Mail:	kellyh@horrocks.com
21.	Doug Alder	E-Mail:	alder@AE-Eng.com
22.	Krystal Chonda	E-Mail:	chanda@AE-Eng.com
23.	Tyson KNUDSEN	E-Mail:	tyson.knudsen@cascade-earth.com
24.	ANDREW SORENSEN	E-Mail:	sorecandr@isu.edu
25.	Arya Ebrahimpour	E-Mail:	ebraarya@isu.edu
26.	Caryn Wendt	E-Mail:	wendcary@isu.edu
27.	Denice Wright	E-Mail:	wrigdeni@isu.edu
28.	Kyle Gagnon	E-Mail:	gagnkyle@isu.edu
29.	SOLOMON LEUNG	E-Mail:	
30.	TRAVIS HITCHCOCK	E-Mail:	hitctrav@isu.edu

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31.	BARBARA EARLES	E-Mail:	earlbarb@isu.edu
32.	Jeanne Bailey	E-Mail:	mechjean@gmail.com
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Southern Idaho Section – ASCE Meeting in Eastern Idaho

DATE: **Tuesday, May 19, 2015**

TIME: **12:00 to 1:00 pm**

LOCATION: **Pizza Pie Café, Ammon, Idaho**

COST: **Attendance is Free. You can purchase lunch there or you can bring a sack lunch.**

SUBJECT: *The Federal Highway Administration's "Bridge of the Future" initiative took a wise look at the past before soaring ahead to the future. The result was the Geosynthetic Reinforced Soil (GRS) Integrated Bridge System (IBS). Instead of using conventional bridge support technology, GRS-IBS technology has proven it:*

- *can reduced construction time and cost, with costs reduced 25 to 60 percent from conventional construction methods,*
- *is easy to build with common equipment and materials; easy to maintain because of fewer parts, and*
- *has a flexibility in design that's easily modified in the field for unforeseen site conditions, including unfavorable weather conditions.*

Sign In

1. Kelly Hoopes e-mail address: kellyh@harrocks.com
2. Caden Fullmer e-mail address: fullm1003@byui.edu
3. Eric Seaddard e-mail address: ~~Ste12e12~~ ericalanseaddard@gmail.com
4. Jim Lawrence e-mail address: lawrenceja@byui.edu
5. Mike Arnelson e-mail address: Marnelson@jub.com
6. Nathan Harris e-mail address: harrisn@byui.edu
7. Lance Bates e-mail address: lbates@cityofammon.us
8. John Gilmore e-mail address: jp.gilmore@hotmail.com
9. Kent Fugal e-mail address: kfugal@idahofallsidaho.gov
10. Chris Caufield e-mail address: ccaufield@idahofallsidaho.gov

11. Leith Sheets e-mail address: leiths@horrocks.com
12. ZANE WELLS e-mail address: ZANE.WELLS@ES2ENG.com
13. SCOTT McMULLIN e-mail address: mcmullsr@gmail.com
14. BRYAN FOOTE e-mail address: BRYANF@HORROCKS.COM
15. Blake Jolley e-mail address: bjolley@hlcinc.com
16. Michael McKee e-mail address: michael.mckee@itd.idaho.gov
17. MICHAEL ADAMS e-mail address: michaela@horrocks.com
18. BRIAN LISH e-mail address: brianl@horrocks.com
19. Kevin Harris e-mail address: Kharris@forsgren.com
20. JUSTIN BEARD e-mail address: jbeard@forsgren.com
21. DANIEL SHARP e-mail address: dsharp@nwengring
22. _____ e-mail address: _____
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Ethics – The Road All Engineers Must Follow

Presented By:

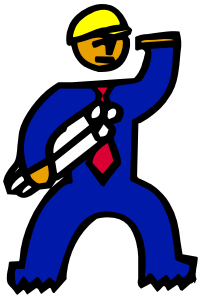
Charles C. Calhoun, Jr., P.E., D.NE, F. ASCE
Tara Hoke, Aff.M.ASCE
Michael R. Sanio M.ASCE, CAE

ASCE | KNOWLEDGE & LEARNING

Ethics - The Road Engineers Must Follow

2

Introduction



- The US general public consistently ranks engineering second only to the medical professions with regard to honesty and ethics.

Gallup

3

Introduction

4

Topics

- Introduction
- Exactly what are (is?) “Ethics?”
- How did the ASCE Code of Ethics come about?
- What does the code say and can I possibly live by it?
- Where can I get help in making ethical decisions?
- How does ASCE enforce the Code?
- What does the ASCE General Counsel say?
- What is ASCE’s involvement in Global Ethics?
- Summary

5

Appendices

Appendix A: 1914 Code of Ethics

Appendix B: An Engineer’s Charter

Appendix C: References and Other Interesting Publications

6

Exactly what are (is?) "Ethics?"

Engineering Ethics – the study of **moral** issues and decisions confronting individuals and organizations involved in engineering.

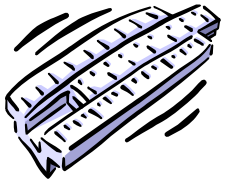
www.nspe.org

7

Exactly what are (is?) "Ethics?"

❖**Code of ethics** – rules or standards that guide individuals or organizations to do the **moral** or right thing

(Adapted from Center for Army Leadership)



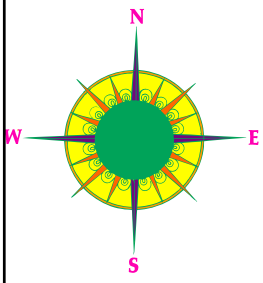
❖**Moral** – making right decisions by distinguishing between right or wrong in accordance with the **principles** of right or wrong.

❖(Webster's Dictionary)

8

Exactly what are (is?) "Ethics?"

Principles



Fundamental laws of the universe that pertain to human relationships and human organizations

(Covey, 1992)

Deep fundamental, classic truths. … Generic common denominators

(Hackman and Johnson)

… Never a weather vane … a compass forever fixed and forever true

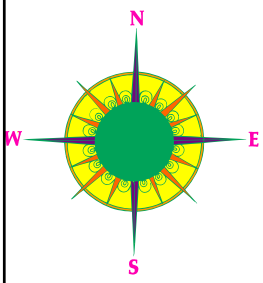
Maxwell (2003)

A fundamental truth

(Webster's Dictionary)

9

Exactly what are (is?) "Ethics?"



ETHICS ARE PRINCIPLE BASED!!

10

Exactly what are (is?) “Ethics?”

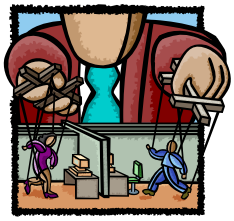
PROFESSIONAL = PERSONAL

11

Exactly what are (is?) “Ethics?”

What is ethical behavior in one kind of organization or situation is ethical behavior in another.

Drucker



There is no such thing as business ethics – there’s only ethics.

Maxwell (2003)

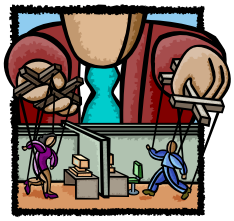
12

Exactly what are (is?) "Ethics?"

LAW

VERSUS

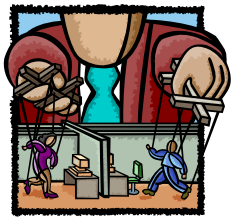
ETHICS



13

Exactly what are (is?) "Ethics?"

"I have lived my life in a society where there was no rule of law. And that is a terrible existence. But a society where the rule of law is the only standard of ethical behavior is equally bad."

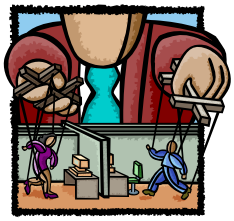


Solzhenitsyn in Maxwell

14

Exactly what are (is?) “Ethics?”

Code of Ethics

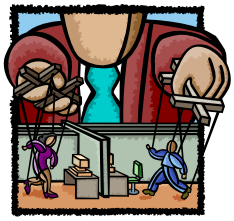


A code of conduct to which a person voluntarily adheres because it reflects his or her values and is believed to be beneficial to society. A guide that, with rare exceptions, does not provide specific instruction. **You ask – <u>Is it the right thing to do</u>**?

15

Exactly what are (is?) “Ethics?”

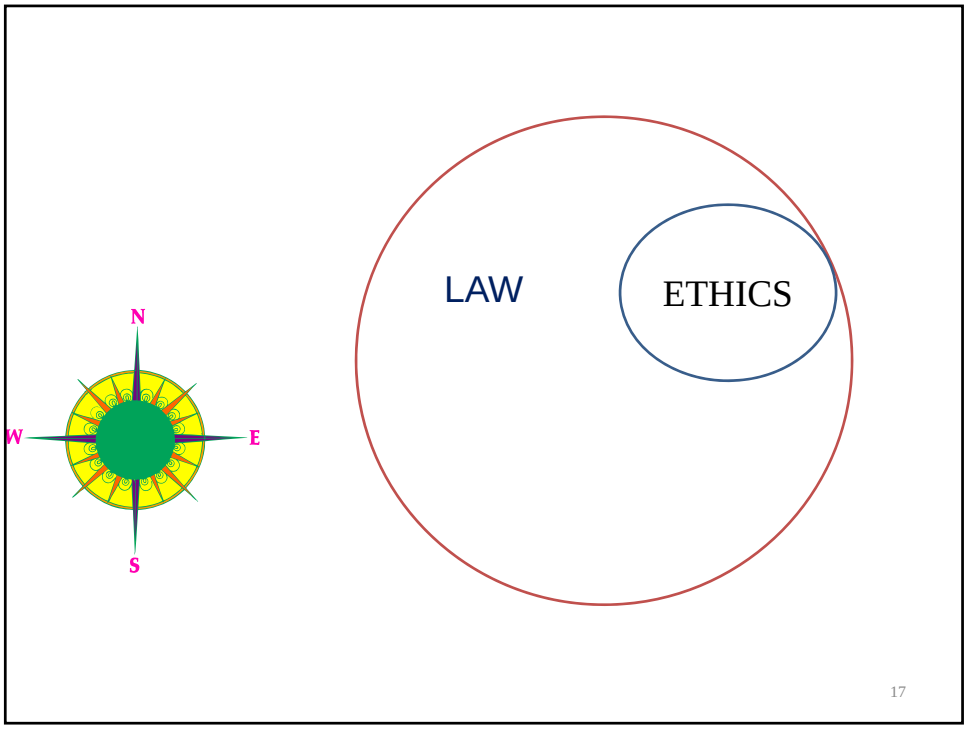
Law



Laws are intended to achieve specific behaviors without the application of either judgment or conscience. They provide specific instructions with specific punishments. **You may ask – <u>What is the chance I will get caught</u>**?

Adapted from Garrett

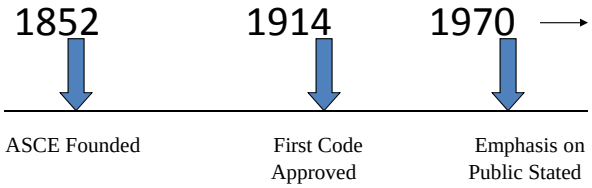
16



How did the ASCE Code of Ethics come about?

18

How did the ASCE Code of Ethics come about?



Pfatteicher

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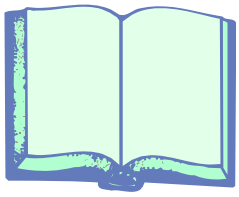
How did the ASCE Code of Ethics come about?

REGISTRATION



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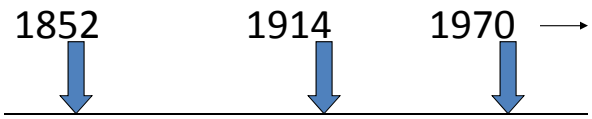
How did the ASCE Code of Ethics come about?



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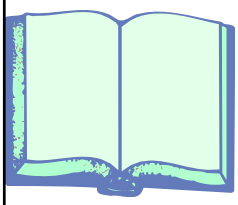
How did the ASCE Code of Ethics come about?

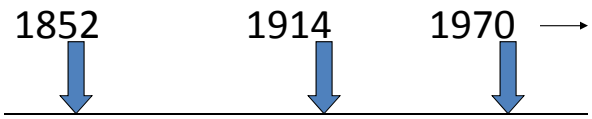


❖ 1914 Code

- ❖Focused on relationships – engineer to engineer and engineer to client
- ❖Responsibilities to public – <u>not mentioned</u>

22

How did the ASCE Code of Ethics come about?



Pfatteicher

23

How did the ASCE Code of Ethics come about?

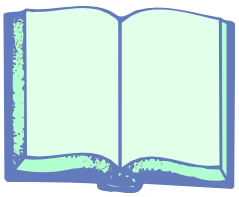
- 1970s +
  - Major revisions to produce today's code
  - Safety, health, and welfare of public is **PARAMOUNT**

24

What does the code say and can I possibly live by it?

25

What does the code say and can I possibly live by it?



- Fundamental principles
- Fundamental canons
- Guidelines to practice

26

What does the code say and can I possibly live by it?

C
A
N
O
N
S

Fundamental Canons

1. Engineers shall hold paramount the safety, health and welfare of the public and shall strive to comply with the principles of sustainable development in the performance of their professional duties
2. Engineers shall perform services only in areas of their competence
3. Engineers shall issue public statements only in an objective and truthful manner

(Continued)

27

What does the code say and can I possibly live by it?)

C
A
N
O
N
S

Fundamental Canons

4. Engineers shall act in professional matters for each employer or client as faithful agents or trustees and shall avoid conflicts of interest
5. Engineers shall build their professional reputation on the merit of their services and shall not compete unfairly with others

(Continued)

28

What does the code say and can I possibly live by it?)

Fundamental Canons (Concluded)

C

A

N

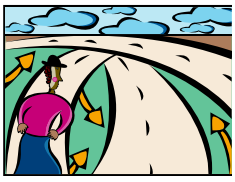
O

N

S

6. Engineers shall act in such a manner as to uphold and enhance the honor, integrity, and dignity of the engineering profession and shall act with zero tolerance, for bribery, fraud, and corruption.
7. Engineers shall continue their professional development throughout their careers, and shall provide opportunities for the professional development of those engineers under their supervision

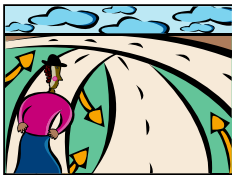
29



Ethics is a highfalutin word, … for the study of right and wrong … twists and turns of sophisticated intellectual debate obscure a much much simpler truth.

Goldberg

30

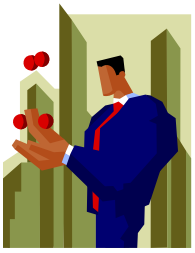


Have we (engineers) … made the concept of ethical behavior so complex and confusing that we fail to act in ways consistent with moral principles when faced with an ethical dilemma?

Veach

31

What does the Code say and can I possibly live by it?



- "5P's" for Compromised Ethics
  - Pressure
  - Pleasure
  - Power
  - Pride
  - Priority

Maxwell (2003)

32

Where can I get help in making ethical decisions?

33

Where can I get help in making ethical decisions?

D

I

L

E

M

M

A

S

Ethical dilemmas

34

Where can I get help in making ethical decisions?

- HELP?
  - ASCE Guidelines for Professional Conduct
  - Guidelines to practice
  - Your organization's leadership
  - State Registration Boards
  - **ASCE Ethics Hotline – 703.295.6061; 800.548.ASCE, X6061**
  - Other
    - National Society of Professional Engineers, www.nspe.org
    - National Institute for Engineering Ethics: www.niee.org

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Where can I get help in making ethical decisions?

The PLUS Test

P = Policies. Does the action serve the best interests of the public and the client? Is the action consistent with ASCE's Code of Ethics and your employer's policies, procedures, and guidelines?

L = Legal. Is the action compliant with the spirit and the letter of applicable laws and regulations?

U = Universal. Does it conform to the universal principles and values that the profession and your employer have adopted?

S = Self. Does it satisfy your own personal definition of right, good, and just?

36

Where can I get help in making ethical decisions

The SPLUS Test

P = Policies. Does the action serve the best interests of the public and the client? Is the action consistent with ASCE's Code of Ethics and your employer's policies, procedures, and guidelines?

L = Legal. Is the action compliant with the spirit and the letter of applicable laws and regulations?

U = Universal. Does it conform to the universal principles and values that the profession and your employer have adopted?

S = Self. Does it satisfy your own personal definition of right, good, and just?

37

How does ASCE Enforce the Code?

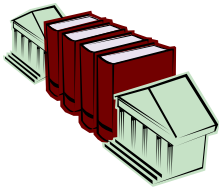
38

YOU!!!

39

How does the ASCE enforce the code?

❖Applicability – All Society members **must** subscribe …



❖Duty – A Society member **shall** report promptly to ASCE any observed violation of the Code

40

How does ASCE enforce the Code?

Complaints

Call the Ethics Hotline:

703.295.6151

800.548.ASCE (x6151)

41

How does ASCE enforce the Code?

What does the ASCE General Counsel have to say?

42

ASCE Ethics

- Edict
- Enforcement
- Education

43

Edict

Code of Ethics: Evolution from 1914 to the present

Antitrust investigations

Amendments

-Sustainable development (1996)

-Anti-corruption (2006)

44

Enforcement

ASCE Committee on Professional Conduct

Disciplinary Action in 40 cases over 10-year span

- Plagiarism, improper campaign contributions, illegal gratuities, impugning integrity, breach of fiduciary duty to firm, overstatement of hours worked, incompetence/ misrepresentation, misappropriation of funds
- 2 expulsions, 19 resignations, 11 suspensions, 5 letters of admonition, 3 cease and desist letters
- Discretionary: publication in ASCE News, notification of State Licensing Boards

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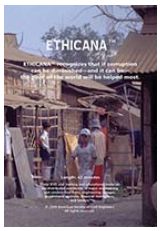
Education

- Publications
- Policies
- Videos
- Seminars
- Order of the Engineer
- Awards
- Ethics hotline
- Case studies



Case Study #1 (ASCE News Question of Ethics Column, 8/07)

- Facts: A Professional Engineer preparing construction design plans for a wastewater treatment facility dies suddenly as the plans are nearing completion.
- Question: May another Professional Engineer who has not prepared or supervised the preparation of the plans place her own seal on the plans following careful review of the work?

47

Case Study #1 (ASCE News Question of Ethics Column, 8/07)

ASCE Code of Ethics

Fundamental Canon 1, guideline a:

Engineers shall approve or seal only those design documents, reviewed or prepared by them, which are determined to be safe for public health and welfare in conformity with accepted engineering standards.

Fundamental Canon 2, guideline c:

Engineers shall not affix their signatures or seals to any engineering plan or document dealing with subject matter in which they lack competence by virtue of education or experience or to any such plan or document not reviewed or prepared under their supervisory control.

48

Case Study #1 (ASCE News Question of Ethics Column, 8/07)

NCEES Model Rules

- In circumstances where a licensee in responsible charge of the work is unavailable to complete the work… a successor licensee may take responsible charge by performing all professional services to include developing a complete design file with work or design criteria, calculations, code research, and any necessary and appropriate changes to the work. The non-professional services, such as drafting, need not be redone by the successor licensee but must clearly and accurately reflect the successor licensee's work. The burden is on the successor licensee to show such compliance. The successor licensee shall have control of and responsibility for the work product and the signed and sealed originals of all documents.

49

Case Study #1 (ASCE News Question of Ethics Column, 8/07)

Conclusion:

- ASCE's Code of Ethics permits an engineer to seal plans not prepared under her supervisory control after careful review of the work.
- However, engineers must look to state law to confirm that this practice is permitted in the applicable jurisdiction and to ensure compliance with any additional requirements that may be imposed.

50

Case Study #2 (ASCE News Question of Ethics Column, 6/08)

- Facts: A principal of a large engineering firm makes substantial contributions to candidates for state and local office, and causes his firm to reimburse employees for doing the same. Following a grand jury investigation, the member pleads no contest to violating state campaign contribution laws.
- Question: Did this member's actions violate the ASCE Code of Ethics?

51

Case Study #2 (ASCE News Question of Ethics Column, 6/08)

ASCE Code of Ethics

Fundamental Canon 5, guideline a:

Engineers shall not give, solicit or receive either directly or indirectly, any political contribution, gratuity, or unlawful consideration in order to secure work, exclusive of securing salaried positions through employment agencies.

Fundamental Canon 6:

Engineers shall act in such a manner as to uphold and enhance the honor, integrity, and dignity of the engineering profession and shall act with zero tolerance for bribery, fraud, and corruption.

52

Case Study #2 (ASCE News Question of Ethics Column, 6/08)

Conclusion:

- ASCE's Committee on Professional Conduct (CPC) finds that the member's actions violated Canons 5 and 6 of the Code of Ethics and recommends expulsion.
- Before a hearing of the Board of Direction can convene, the member tenders his resignation from the Society. The Board accepts the resignation with prejudice toward readmission, and notice of the action is published in a Society publication.
- In addition, a state court sentenced the member to community service and payment of a substantial fine.

53

Case Study #3 (ASCE News Question of Ethics Column, 4/09)

Facts: Departing employee contacts his firm's clients to solicit work from them for his new practice, tells clients that he has "grave concerns" about firm's ability to meet client needs after his departure.

Question: Is it ethical for a member to criticize employer and solicit work from employer's clients while still employed by the firm?

54

Case Study #3 (ASCE News Question of Ethics Column, 4/05)

ASCE Code of Ethics

Fundamental Canon 4:

Engineers shall act in professional matters for each employer or client as faithful agents or trustees, and shall avoid conflicts of interest.

Fundamental Canon 5, guideline (g)

Engineers shall not maliciously or falsely, directly or indirectly, injure the professional reputation, prospects, practice or employment of another engineer or indiscriminately criticize another's work.

55

Case Study #3 (ASCE News Question of Ethics Column, 4/05)

Conclusion:

- The member is found to have violated Canons 4 and 5 of the ASCE Code of Ethics, and the Committee on Professional Conduct recommends expulsion.
- At hearing before the Board, member denies trying to solicit work, claims that any concerns about his employers were raised by clients, not him, and that he only responded with honest assessment and without improper motive.
- While not fully persuaded by his arguments, Board votes in favor of suspension rather than expulsion.

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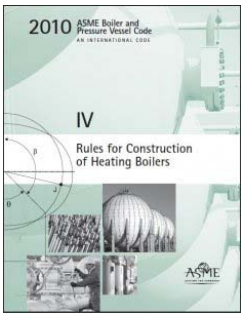
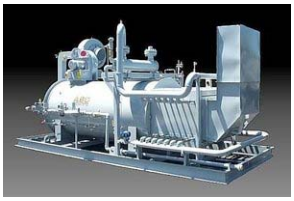
Case Study # 4 (ASCE News Question of Ethics Column, 2/11)





Facts: Two standards committee members with a personal interest in a product manufacturer issue an opinion in the committee's name which incorrectly claims that a competing product produced by a company called Hydrolevel fails to meet the standard's safety requirements.

Question: What are the ethical implications of the engineers' conduct?

57

Case Study #4 (ASCE News Question of Ethics Column, 2/11)

ASCE Code of Ethics

Fundamental Canon 4, guideline a:

Engineers shall avoid all known or potential conflicts of interest with their employers or clients and shall promptly inform their employers or clients of any business association, interests, or circumstances which could influence their judgment or the quality of their services.

Fundamental Canon 5:

Engineers shall build their professional reputation on the merit of their services and shall not compete unfairly with others.

58

Case Study #4 (ASCE News Question of Ethics Column, 2/11)

Conclusion:

- Hydrolevel sues all parties involved for violation of federal Sherman Antitrust Act.
- Employers of the two committee members settle antitrust claims out of court; pay Hydrolevel approximately $800,000.
- The standards organization denies responsibility for its committee members' conduct. Case goes to the U.S. Supreme Court, which holds the organization liable for damages in the amount of $4.5M

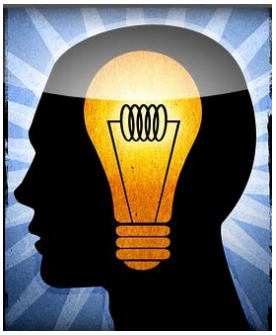
(Case: ASME v. Hydrolevel, U.S. Supreme Court, 1982)

59

Case Study #5 (ASCE News Question of Ethics Column, 9/12)

Facts: A company website lists an employee's design of an innovative industrial structure without stating that the work was done while employed with another company and under the supervision of others.

Question: Is it ethical to describe an employee's accomplishments without adding that the work was done under supervision and in a prior place of employment?



60

Case Study #5 (ASCE News Question of Ethics Column, 9/12)

ASCE Code of Ethics

Fundamental Canon 5, guideline e:

Engineers shall give proper credit for engineering work to those to whom credit is due, and shall recognize the proprietary interests of others. Whenever possible, they shall name the person or persons who may be responsible for designs, inventions, writings or other accomplishments.

Fundamental Canon 5, guideline f:

Engineers may advertise professional services in a way that does not contain misleading language or is in any other manner derogatory to the dignity of the profession.

61

Case Study #5 (ASCE News Question of Ethics Column, 9/12)

Conclusion:

- ASCE's Committee on Professional Conduct concludes that the description on the company website created a false impression as to the responsible party for the project, and therefore represented a violation of Canon 5 of the ASCE Code of Ethics.
- The Committee recommends that the members either revise or remove the project description from the company website, and the members agree to remove the page.

62

What is ASCE's Involvement in Global Ethics?

63

What is ASCE's involvement in global ethics?

The Problem

- World construction ~ $5.0T

ENR

- ~10% - as much as $500B - lost to bribery, fraud and corruption

World Bank

64

What is ASCE's involvement in global ethics?

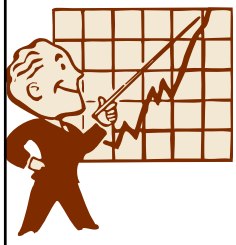
Developing Countries

- 80% of infrastructure $ - next 10 years
- 2/3 of major cities – 15 years
- Relatively high corruption rating

65

What is ASCE's involvement in global ethics?

U. S. Organizations



- "… we'll see the global practice of CE grow at unprecedented rates."
- "… level the playing field."

Bill Henry

What is ASCE's involvement in global ethics?

Zero Tolerance

- Consulting engineering firms
- Major construction contractors
- Professional societies - SILENT

67

What is ASCE's involvement in global ethics?

" … an ethical foundation cannot be built by the organization as a whole. … built beginning with each individual and done … in the face of continuous pressure to perform at the expense of doing the right thing … ."

Maxwell

68

What is ASCE's involvement in global ethics?

CPP - Committee on Global Principles for Professional Conduct

- ASCE Policy
- Revision to the Canon 6 - ASCE Code of Ethics
- Engineer's Charter
- Global - Anti Corruption Education and Training Program – www.*Ethicana.org*

69

What is ASCE's involvement in global ethics?

ASCE Policy

S T A T E M E N T

The ASCE supports a zero tolerance policy toward bribery, fraud, and corruption in design and construction. ASCE further actively supports the global effort to stem corruption in the procurement and execution of design services and construction projects. ASCE openly seeks cooperation with others in a domestic and international effort to empower individual engineers in the fight against corruption through education, awareness and the adoption and enforcement of Principles and Guidelines for Professional Conduct.

70

Canon 6

What is ASCE's involvement in global ethics?

Engineers shall act in such a manner as to uphold and enhance the honor, integrity, and dignity of the engineering profession

…pre July 2006

71

Canon 6

What is ASCE's involvement in global ethics?

and shall act with zero tolerance for bribery, fraud, and corruption.

…added July 2006

72

What is ASCE's involvement in global ethics?

G
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Engineers:

a. Shall not *knowingly engage* in business or professional practices of a fraudulent, dishonest or unethical nature.

b. Shall be *scrupulously honest* in their control and spending of monies, and promote effective use of resources through open, honest and impartial service with fidelity to the public, employers, associates and clients.

73

What is ASCE's involvement in global ethics?

G
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c. Shall act with *zero tolerance* for bribery, fraud, and corruption in all engineering or construction activities in which they are engaged.

d. Should be especially vigilant to maintain appropriate ethical behavior where *payments of gratuities* or bribes are institutionalized practices.

74

What is ASCE's involvement in global ethics?

G U I D E L I N E S

e. Should strive for transparency in the procurement and execution of projects. Transparency includes *disclosure of names, addresses*, purposes, and fees or commissions paid for all agents facilitating projects.

f. Should encourage the use of *certifications* specifying zero tolerance for bribery, fraud, and corruption in all contracts.

75

What is ASCE's involvement in global ethics?

76

Summary

77

YOUR ROLE

YOU must:

- Establish the organization's ethical climate.
- Define core values – the ethical compass.
- Communicate, live by, and exhibit the compass.
- Demand your people abide by the compass.
- Establish and enforce penalties.

78

In other words:

You must preach, preach, preach ethics and sometimes you even have to speak.

79

Summary

"Each of us has a conscience … We know when we have done the right thing."

Hinckley

"Integrity … behavior is the only score that is kept."

DePree

"… guard your integrity as if it's your most precious leadership possession – because it is."

Cottrell

"I consider him Mr. Integrity – as high a compliment you can pay anyone."

Welch

"In respect to ethics, the rules are the same for everybody, and the test is a simple one – 'the mirror test'."

Drucker

80

Summary

Before you make a decision ask

81

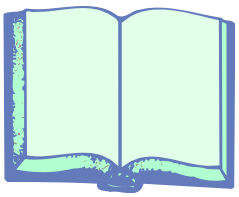
Summary

“IS IT RIGHT”

82

- Comments?
- Questions?
- Observations?

83

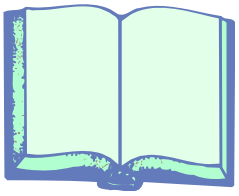


APPENDIX A:

1914 CODE OF ETHICS

84

Appendix A: The 1914 Code



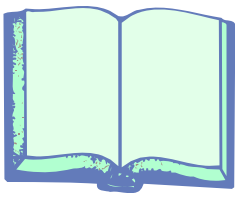
It shall be considered unprofessional and inconsistent with honorable and dignified bearing for any member of the American Society of Civil Engineers

1. To act for his clients in professional matters otherwise than as a faithful agent or trustee, or to accept remuneration other than his stated charges for services rendered his clients

(Continued)

85

Appendix A: The 1914 Code

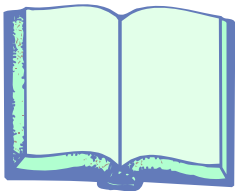


2. To attempt to injure falsely or maliciously, directly or indirectly, the professional reputation,prospects, or business of another engineer
3. To attempt to supplant another engineer after definite steps have been taken toward his employment

(Continued)

86

Appendix A: The 1914 Code

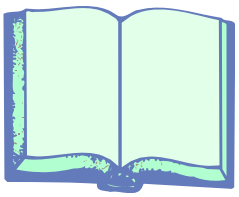


4. To compete with another engineer for employment on the basis of professional charges, by reducing his usual charges and in this manner attempting to underbid after being informed of the charges named by another
5. To review the work of another engineer for the same client, except with the knowledge or consent of such engineer, or unless the connection of such engineer with the work has been terminated

(Continued)

87

Appendix A: The 1914 Code



6. To advertise in self-laudatory language, or in any other manner derogatory to the dignity of the profession

88

Appendix B:

An Engineer's Charter

89

Appendix B: An Engineer's Charter

An Engineer's Charter

We, the undersigned, as leaders in the global engineering community, recognize that corruption of all forms diverts resources from projects intended to raise living standards, threatens sustainable development, impoverishes communities, and tarnishes the reputation of the profession.

We hereby join in the battle against bribery, fraud, and corruption in engineering and construction worldwide.

We acknowledge as fundamental principles of professional conduct that engineers as individuals must:

(Continued)

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Appendix B: An Engineer's Charter

❖Ensure that they are not personally involved in any activity that will permit the abuse of power for private gain

❖Recognize that corruption occurs within the public and private sectors, in the procurement and execution of projects, and among employers and employees

❖Refuse to condone or ignore corruption, bribery, or extortion, or payments for favors

❖Urge professional engineering societies and institutions to adopt and publish transparent, enforceable guidelines for ethical professional conduct

❖Enforce anti-corruption guidelines by reporting infractions by any participant in the engineering and construction process

(Continued)

91

Appendix B: An Engineer's Charter

Further, we pledge to support the formal adoption of these principles by our professional organizations; build professional and public support for zero tolerance for bribery, fraud and corruption; seek transparence in all dealings with public officials and private owners; and coordinate our efforts with the work of Transparency International, the Partnership Against Corruption Initiative of the World Economic Forum, the World Bank and other local or global organizations seeking the same goal

Signatories

Name	Organization	Date

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Appendix C

References and Other Interesting Publications

93

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Mon., Aug. 24 – Timber Design	Wed., Aug. 26 – Bridge Loads
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Wed., Sept. 9 – Seismic Design	

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Tue., Aug. 4 – Structural Analysis	Thur., Aug. 6 – Structural Mechanics
Tue., Aug. 11 – Design and Construction	Thur., Aug. 13 – Construction Materials
Tue., Aug. 18 – Soil Mechanics	Thur., Aug. 20 – Foundation Engineering
Tue., Aug. 25 – Hydraulics	Thur., Aug. 27 - Hydrology
Tue., Sept. 1 – Geometrics	Thur., Sept. 3 – Construction Engineering
Tue., Sept. 8 – Engineering Cost Analysis	Thur., Sept. 10 – Project Scheduling and Estimating

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P.E. Civil Exam Review, 22- Part Breadth & Depth Sessions

Tue., Aug. 4 – Structural Analysis	Thur., Aug. 6 – Structural Mechanics
Tue., Aug. 11 – Design and Construction	Thur., Aug. 13 – Construction Materials
Tue., Aug. 18 – Soil Mechanics	Thur., Aug. 20 – Foundation Engineering
Tue., Aug. 25 – Hydraulics	Thur., Aug. 27 - Hydrology
Tue., Sept. 1 – Geometrics	Thur., Sept. 3 – Construction Engineering
Tue., Sept. 8 – Engineering Cost Analysis	Thur., Sept. 10 – Project Scheduling and Estimating

Mon., Sept. 14 – Transportation Depth I	Tue., Sept. 15 – Structural Depth I
Wed., Sept. 16– Geotechnical Depth I	Thur., Sept. 17– Waste Resource & Env. I
Fri., Sept. 18 – Construction Depth I	Mon., Sept. 21 – Transportation Depth II
Tue., Sept. 22– Structural Depth II	Wed., Sept. 23- Geotechnical Depth II
Thur., Sept. 24– Waste Resource & Env. II	Fri., Sept. 25 – Construction Depth II

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P.E. Environmental Exam Review Course

Fri., Aug. 7 – Air Quality	Fri., Aug. 14 – Waste and Water Treatment
Fri., Aug. 21 – Hazardous Waste and Emergency Operations	Fri. Aug. 28 – Environment Assessment & Remediation
Fri., Sept. 4 – Water Quality	Fri., Sept. 11 – Storm Water

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ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Webinar

Date: July 16, 2015 Location: URS Training Room Duration: 1.5 hours	Title: The Road All Engineers Must Follow Speaker: ASCE National Webinar

Description: Engineering is consistently ranked by the general public in the U.S. as one of the top five ethical professions. Have we tricked the public or is this an honor we have truly earned? When you joined ASCE you made a commitment to subscribe to the ASCE Code of Ethics and even agreed to report any observed violations of the Code. Do you have a copy of and understand this Code. Do you consider ethics only during the hour your state licensing board may require ethics training? Are you aware that ASCE is leading the effort to develop global ethical standards? We have not tricked the public because we take ethics seriously and insist that others do also. In this webinar, ethics will be carefully defined and you will delve into its origin and evolution. Ethical dilemmas are discussed and you are guided to various sources to aid in decision making. The ASCE Code of Ethics as well as other formal and informal Codes are presented and discussed. The ASCE General Counsel will discuss current hot topics and the Director of International Alliances will discuss Global ethics. Both will be available to take your questions. Engineering is a proud, honorable, and ethical profession. This webinar allows you to contemplate and focus on the ethics that will guide you and the profession to the continued respect the public and our clients demand. This is the road all must all follow.

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10		
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ETHICAL BEHAVIOR

THE KEY TO EARNING TRUST

Presented by
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Note to site coordinators about distributing copies of this PowerPoint PDF to webinar participants

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Note to webinar participants about this PowerPoint PDF

The handout is intended to supplement the webinar in three ways:

- **Provide brief text and visuals that reinforce or illustrate the webinar leader's presentation.**
- **Provide a basis/place for taking notes during the webinar.**
- **Provide additional material (e.g., the appendices) for self or group study after the webinar.**

This handout is not intended to be a self-standing document, that is, the handout has minimal value to a non-participant.

ETHICAL BEHAVIOR: THE KEY TO EARNING TRUST

I draw on my experiences in the public, private, and academic sectors; on my research; and on lessons learned from many and diverse ethical situations

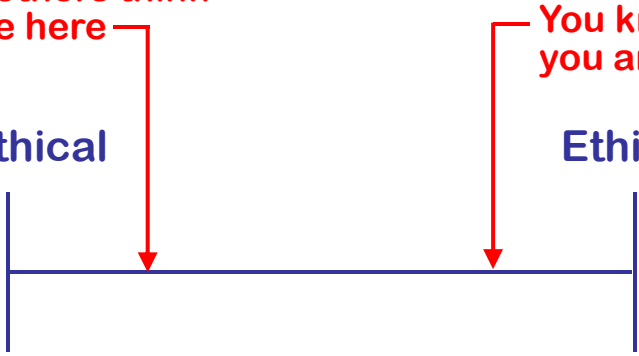
As a result of this webinar, you should be able to answer these three questions:

- Why study ethics?
- What is ethics?
- How can we make ethical decisions?

Where are you on the ethics scale?

Some others think you are here

You know you are here



APPENDICES

A: RESOURCES FOR FURTHER STUDY

B: PRESENTER

C: ETHICS DILEMMAS

D: DOES ETHICAL BEHAVIOR "PAY?"

E: THE FIVE "A"s OF REBUILDING TRUST

F: WHAT OTHERS SAY ABOUT TRUST

TOPICS

WHY STUDY ETHICS?

WHAT IS ETHICS?

HOW CAN WE MAKE ETHICAL DECISIONS?

CASE STUDIES

RECAP

Why study ethics?

Earn CEUs/PDHs

Earn and maintain trust

Trust is valued because it is:

Touchy/feely, soft, frosting on the cake

You can "take it to the bank"

Trust – Inter-organization

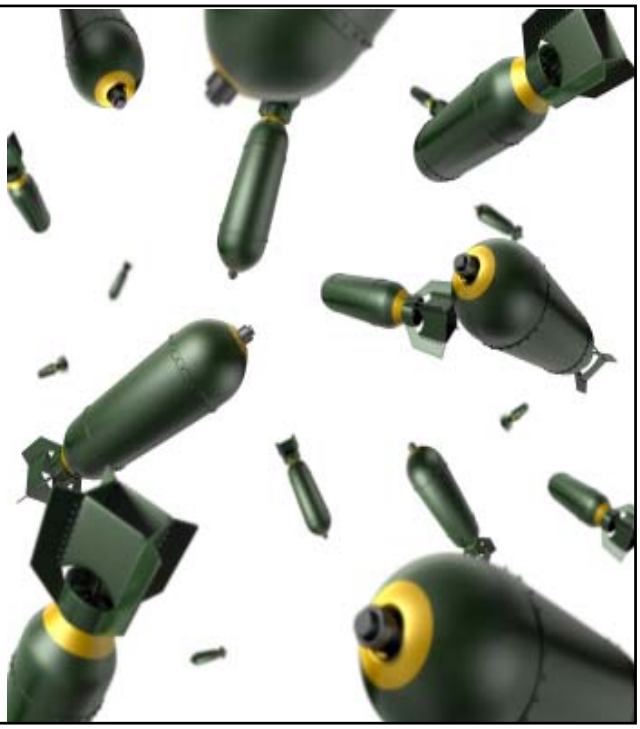
Trust – Intra-organization

One more

Earn and maintain trust

story

We are sometimes bombarded by ethical questions—many are "little" and easy to resolve and some are "big"



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Examples of ethical situations that may be encountered within the consulting/government/ academic/volunteer environment

- Be tempted or implicitly/explicitly directed to incorrectly bill your time
- Acquire sensitive information about a client and share it with a third party outside of your employer
- Plagiarize a paper assigned in a graduate school class

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- Obtain negative information about a competitor and consider providing it to a client or a potential client
- Be asked or tempted to significantly embellish your resume
- Fail to keep your resume current
- Discover and hide an error in plans and/or specifications for a project that is under construction

- Copy another student's laboratory report
- Observe unfair treatment of another employee and not take action
- Accept a substantial gift offered by a vendor
- Cheat on a test

- Be a member of a project team, believe that the facilities being considered by the team would have a significant negative impact on the environment, and do nothing
- Criticize the findings and/or recommendations of another consulting firm
- Participate in an interview in which you suspect that the team representing your company would not, if your firm was selected, be the team that would actually provide the services (bait and switch)
- Others?

Greatest compliment that can be given to a consultant (individual or firm)?

Sole source selection!

This simple?

Competence + Ethical Behavior = Sole Source Selection

TOPICS

WHY STUDY ETHICS?

WHAT IS ETHICS?

HOW CAN WE MAKE ETHICAL DECISIONS?

CASE STUDIES

RECAP

Is ethics the same as law?

Do ethics and law overlap?

Are unethical and illegal acts the same?

Is ethical behavior the same as moral behavior?

Is ethics something you have or something you do?

Some definitions

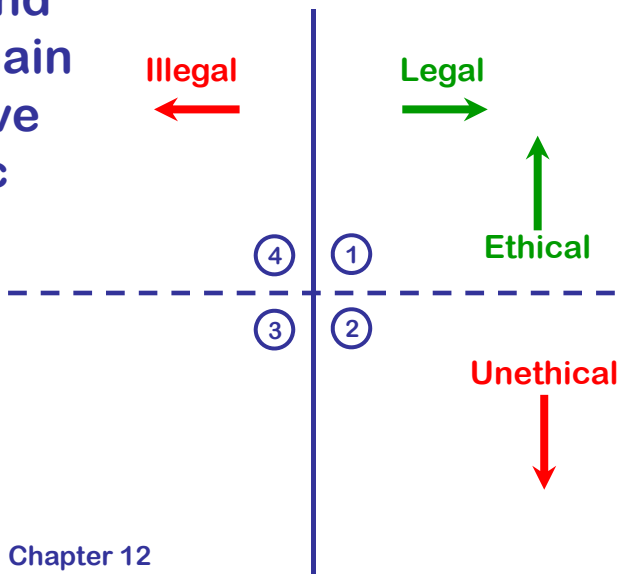
"Ethical conduct is… behavior desired by society which is above and beyond the minimum standards established by law" (Onsrud 1987).

"…the study of systematic methodologies… [that] can be useful in making value-laden decisions" (Vesilind 1988).

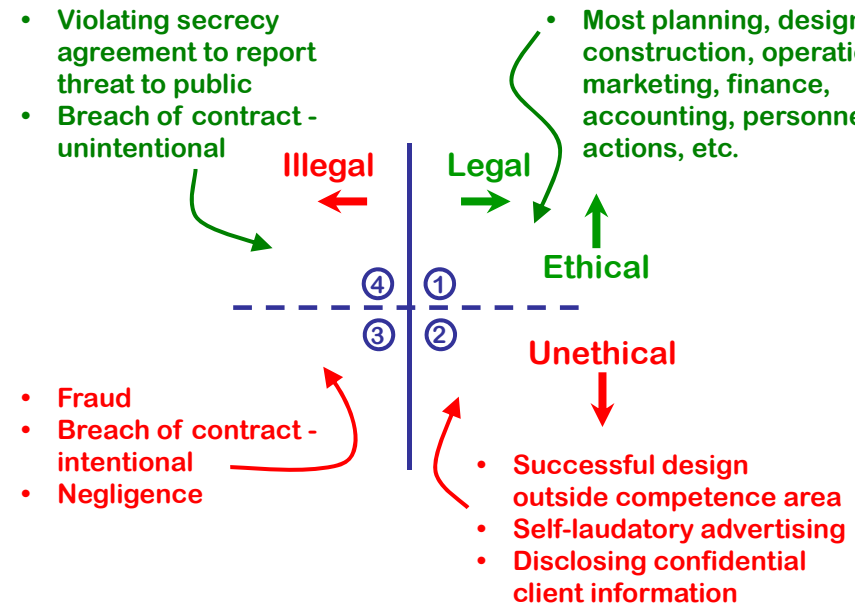
"…the study of moral decisions that must be made by engineers in the course of engineering practice" (Fleddermann, 1999).

Ethics: The process used to make value-laden decisions beyond the law in professional matters

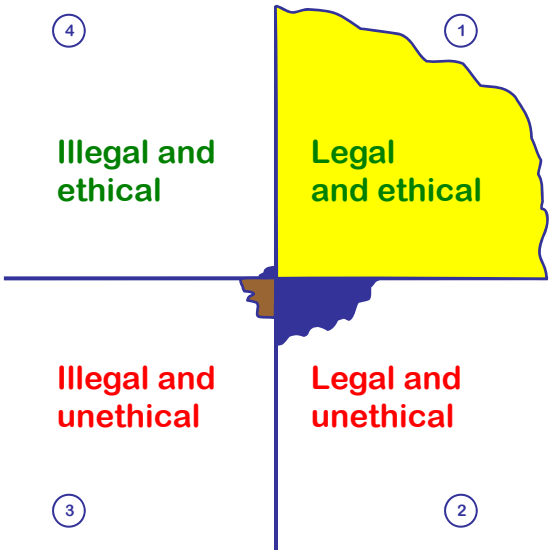
This legal and ethical domain helps resolve problematic situations



Source: Walesh 2012, Chapter 12



The four legal-ethical domain quadrants exhibit widely varying relative occurrence



Value of quadrants

Help us work through issues

Is the option we are considering right or left of the legal line?

Is it above or below the ethics line?

TOPICS

WHY STUDY ETHICS?

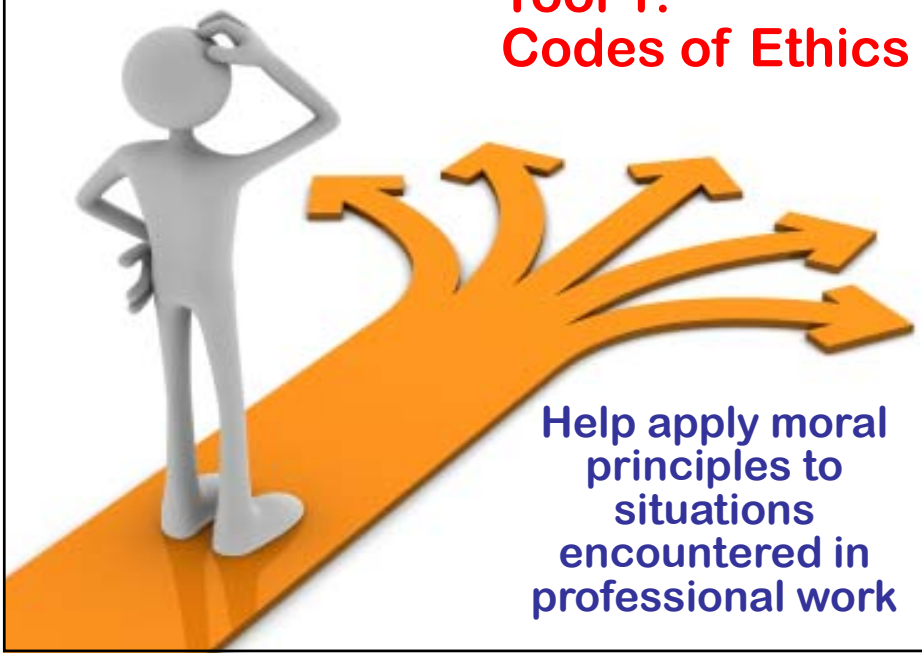
WHAT IS ETHICS?

HOW CAN WE MAKE ETHICAL DECISIONS?

CASE STUDIES

RECAP

Tool 1: Codes of Ethics



Help apply moral principles to situations encountered in professional work

Many sources of ethics codes

- Your employer
- Your professional societies
- Your clients—businesses and government entities
- Universities
- Other

Many sources of ethics codes

- *Your employer*
- Your professional societies
- Your clients—businesses and government entities
- Universities
- Other

Many sources of ethics codes

- Your employer
- *Your professional societies*
- Your clients—businesses and government entities
- Universities
- Other

Examples of professional societies having codes of ethics

American Council of Engineering Companies (ACEC)
American Institute of Architects (AIA)
American Institute of Chemical Engineers (AIChE)
American Institute of Planners (AIP)
American Society of Civil Engineers (ASCE)
American Society of Mechanical Engineers (ASME)
Association of Engineering Geologists (AEG)
Indiana Society of Professional Land Surveyors (ISPLS)
Institute of Electrical and Electronic Engineers (IEEE)
National Society of Professional Engineers (NSPE)
Project Management Institute (PMI)

American Society of Civil Engineers Code of Ethics

Fundamental Principles

Engineers uphold and advance the integrity, honor and dignity of the engineering profession by:

a. using their knowledge and skill for the enhancement of human welfare and the environment;
b. being honest and impartial and serving with fidelity the public, their employers and clients;
c. striving to increase the competence and prestige of the engineering profession; and
d. supporting the professional and technical societies of their disciplines.

Fundamental Canons

1. Engineers shall hold paramount the safety, health and welfare of the public and shall strive to comply with the principles of sustainable development in the performance of their professional duties.
2. Engineers shall perform services only in areas of their competence.
3. Engineers shall issue public statements only in an objective and truthful manner.
4. Engineers shall act in professional matters for each employer or client as faithful agents or trustees, and shall avoid conflicts of interest.
5. Engineers shall build their professional reputation on the merit of their services and shall not compete unfairly with others.
6. Engineers shall act in such a manner as to uphold and enhance the honor, integrity, and dignity of the engineering profession and shall act with zero-tolerance for bribery, fraud, and corruption.
7. Engineers shall continue their professional development throughout their careers, and shall provide opportunities for the professional development of those engineers under their supervision.

Guidelines to Practice Under the Fundamental Canons of Ethics

CANON 1.

Engineers shall hold paramount the safety, health and welfare of the public and shall strive to comply with the principles of sustainable development in the performance of their professional duties. Engineers shall recognize that the lives, safety, health and welfare of the general public are dependent upon engineering judgments, decisions and practices incorporated into structures, machines, products, processes and devices.

a. Engineers shall approve or seal only those design documents, reviewed or prepared by them, which are determined to be safe for public health and welfare in conformity with accepted engineering standards.
b. Engineers whose professional judgment is overruled under circumstances where the safety, health and welfare of the public are endangered, or the principles of sustainable development ignored, shall inform their clients or employers of the possible consequences.

c. Engineers who have knowledge or reason to believe that another person or firm may be in violation of any of the provisions of Canon 1 shall present such information to the proper authority in writing and shall cooperate with the proper authority in furnishing such further information or assistance as may be required.
d. Engineers should seek opportunities to be of constructive service in civic affairs and work for the advancement of the safety, health and well-being of their communities, and the protection of the environment through the practice of sustainable development.
e. Engineers should be committed to improving the environment by adherence to the principles of sustainable development so as to enhance the quality of life of the general public.

Who is bound by a professional society code?

Members of the society organization

Read the code before joining

Non-members: On a voluntary basis

Many sources of ethics codes

- Your employer
- Your professional societies
- *Your clients—businesses and government entities*
- Universities
- Other

Many sources of ethics codes

- Your employer
- Your professional societies
- Your clients—businesses and government entities
- *Universities*
- Other

Limitations of codes

- Can't anticipate all ethical dilemmas
- Don't prioritize competing demands
- Limited power

Source: Fleddermann1999 and Martin and Schinzinger 2005.

Codes evolve

The NSPE code, up to 1979, said that the engineer "shall not solicit or submit engineering proposals on the basis of competitive bidding."

Illegal

Ethical provision becomes an illegal act!

Source: Martin and Schinzinger 2005

Brooks Act of 1972

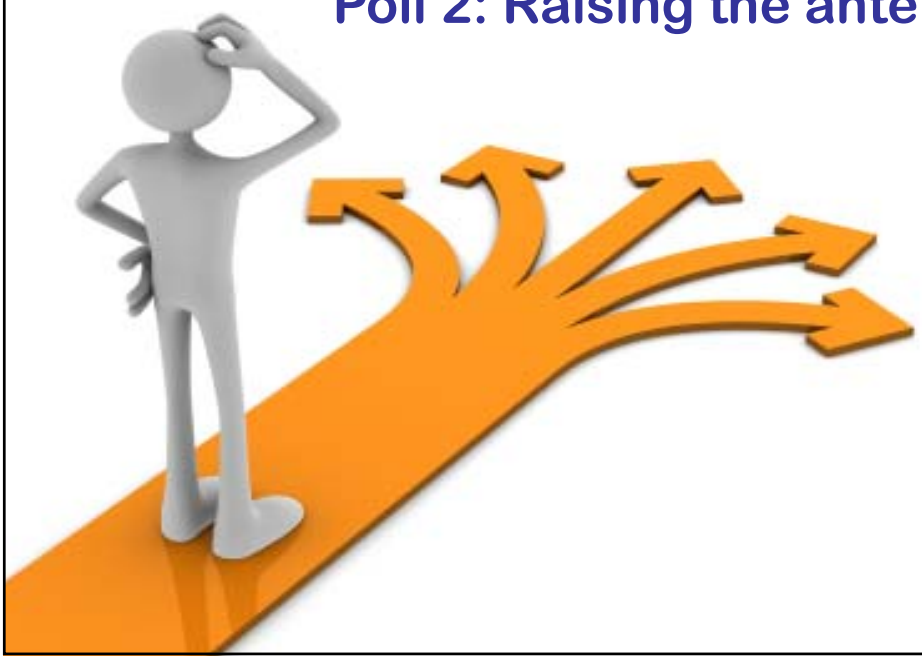
Prohibits federal agencies
from using competitive bidding
to select
engineering and similar firms
for professional services

Some states adopted mini-Brooks Acts

The intent of the failed anti-bidding code provision becomes a law!

Source: Clough et al 2005

Poll 2: Raising the ante



Tool 2:
Experienced colleagues

People outside of your organization

Members of your network
Family members
Former teachers
Religious leaders
Friends
Others

Ethics lessons from an electric utility manager

The manager imagined that board members were sitting around the conference table whenever he was there

Tool 3: A 9-step process

1. Determine the facts in the situation – obtain all of the unbiased facts possible.
2. Define the stakeholders – those with a vested interest in the outcome.
3. Assess the motivations of the stakeholders – using effective communication techniques and personality assessment.
4. Formulate alternative solutions – based on most complete information available, using basic ethical core values as a guide.

5. **Evaluate proposed alternatives** – short-list ethical solutions only; may be a potential choice between/among two or more totally ethical solutions.
6. **Seek additional assistance, as appropriate** – engineering codes of ethics, previous cases, peers, reliance on personal experience, prayer.
7. **Select the best course of action** – that which satisfies the highest core ethical values.
8. **Implement the selected solution** – take action as warranted.
9. **Monitor and assess the outcome** – note how to improve the next time.

Source: Texas Tech 2011

Poll 3: Windfall profit

Tool 4:
Application of Moral Imagination

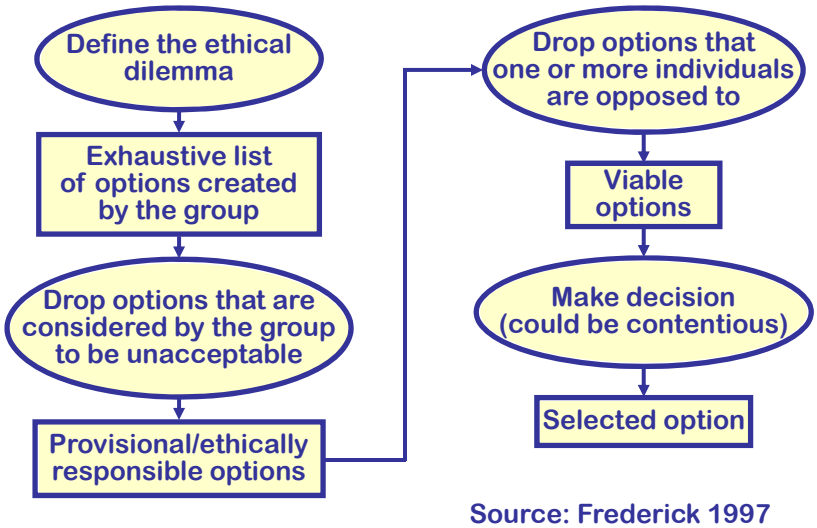
"Think through the implications of our actions, particularly as to how they will affect others"

Take the long view

Lee Atwater's story

Source: Telushkin 2000, Texas Tech 2011

Tool 5:
Systematic group process



Source: Frederick 1997

Tool 6:
Apps

Apps will expand and some will mimic or include features of the previous tools

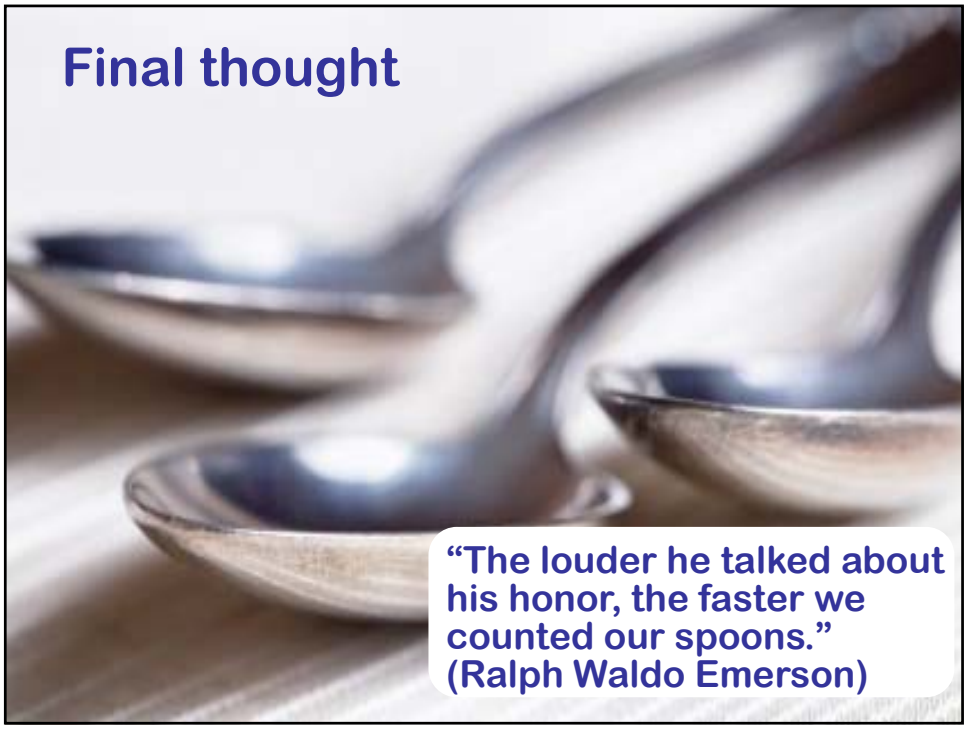
While there may be repetition, the apps feature or approach may appeal to some of us

Example Apps: "Making an Ethical Decision: A Practical Tool for Thinking About Tough Choices," Markkula Center for Applied Ethics, Santa Clara University, Santa Clara, CA http://www.scu.edu/ethics/ethical-decision). Source: PE 2014

How it works:

- You recognize an ethical issue and get the facts.
- Then for each option you can think of, you evaluate on the basis of these factors: Utility, Rights, Justice, Common Good, and Virtue (each is defined).
- Each option gets a numerical score that you/your group can use to compare options.

Final thought



"The louder he talked about his honor, the faster we counted our spoons."
(Ralph Waldo Emerson)

Poll 4: Possible conflict of interest

TOPICS

WHY STUDY ETHICS?

WHAT IS ETHICS?

HOW CAN WE MAKE ETHICAL DECISIONS?

CASE STUDIES

RECAP

CASE STUDY 1: DISCOVERING A MAJOR DESIGN ERROR AFTER CONSTRUCTION IS COMPLETE

In the 1970s, structural engineer William J. LeMessurier, and architect Hugh Stubbins, Jr., designed the 59 story, 910 foot Citicorp Center, which covered an entire city block in Manhattan.

LeMessurier was responsible for the structural design.

Sources: Fleddermann, C. B. 1999; Goldstein and Rubin, 1996; Morgenstern, 1995; Walesh, 2012; and Whitbeck, 1998.

Design Challenge:

Because of the need to reserve space beneath one corner of the building for construction of a freestanding church (to replace an earlier church), the four supporting columns were placed in the middle of each façade or side of the building, rather than at the corners.

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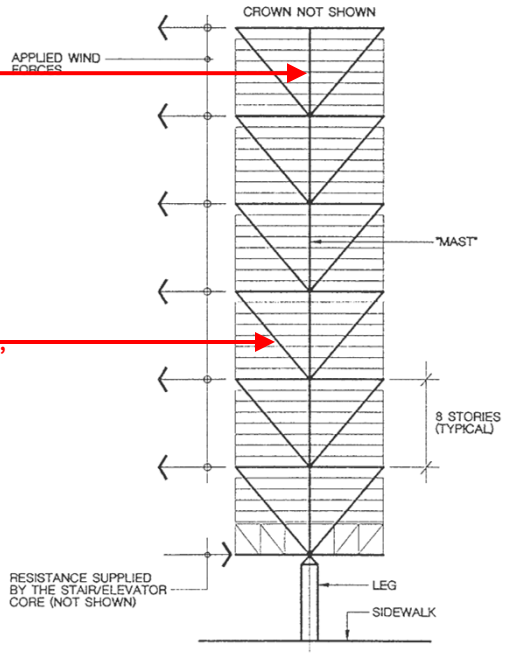
Four columns or legs supporting the Citicorp Center's frame were positioned at the middle of each side or facade of the building, rather than at the corners.

LeMessurier designed a unique system of V-shaped wind braces, arranged in a chevron pattern, mainly to withstand wind forces.

Construction of the Citicorp Center was completed in 1978.



Source: Goldstein and Rubin 1996

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Oops!

As a result of a June 1978 question from an engineering student, who was writing a paper on the Citicorp Center, LeMessurier reviewed his original design. He discovered:

1. Quartering winds, in contrast with winds perpendicular to the building facades, increased strains on some of the chevrons by 40% over the design calculations.
2. The original design called for welded connections within the chevron wind bracing system. However, high-strength bolts were used during construction. Significance: the full potential strength of the connections would not be achieved.
3. Although the building had presumably been designed to withstand winds corresponding to roughly a 50-year recurrence interval storm, the combination of the design error and the construction change, reduced the protection to a 16-year storm.
4. The hurricane season was rapidly approaching.

What would you do?

William LeMessurier's Actions

1. Sought expert advice
2. Performed preliminary design of welded "band aids"
3. Considered reactions of stakeholders
4. Consulted with attorneys
5. Sought additional expert advice
6. Met with Citicorp's Chairman
7. Met with construction company representatives

8. Sought additional expert advice
9. Drafted emergency evacuation plan
10. Explained situation to City officials
11. Issued press release
12. Benefitted from city-wide press strike
13. Built plywood "houses" and welded at night
14. Experienced hurricane
15. Completed work in 10/78

Source: Whitbeck 1998

What happened to LeMessurier?

- Liability insurer paid $2 million
- Increased his reputation as a competent and forthright engineer
- Liability insurer lowered his premiums

Significance for us?

Source: Whitbeck 1998

CASE STUDY 2:
GM IGNITION SWITCH

ETHICS FAILURES MOSTLY BY ENGINEERS

This case study is based primarily on an exhaustive study (Pine 2014 and Valukas 2014):

- By Anton R. Valukas, former U.S. Attorney hired by GM CEO, completed 5/29/14)
- 350 interviews with 230 persons
- 41 million documents
- "Although everyone had responsibility to fix the problem, nobody took responsibility."

Disaster milestones:

- 2002: GM engineer Ray DeGiorgio approved a newly designed ignition switch that was below GM's minimum specifications—too little torque to turn key
- Mid to late 2000s: GM sold 1.6 million vehicles worldwide with faulty switches.

- 2004: GM begins to get informed about drivers accidentally turning of ignition—and airbags and steering—"brushed off" by engineers
- 2006: GM engineer Ray DeGiorgio quietly authorized new ignition design—He does not change part number thus failing to indicate that switches in earlier versions of cars were flawed—No recall notices issued
- Late 2000s: More warnings to GM and more "push back" by GM engineers and some lawyers (Spector 2015)

- February 2014: GM recalls 1.6 million vehicles, with the faulty switch, sold worldwide from mid-to late 2000s
- March 2014: 54 crashes and 13 deaths documented at this time
- This is just the beginning of the documented deaths/injuries

- June 2014: New GM GEO and engineer Mary Barra accepts Valukas report calling it "extremely thorough, brutally tough, and deeply troubling." She:
  - Pledges to fix this and move on
  - Fires 15 employees, including engineer Ray DeGiorgio
  - Establishes a "global integrity unit"

- October 2014: 1371 claims have occurred
- January 31, 2015: Deadline for claims—3350 claims including 50 deaths (Stout 2015)
- May 2015: 107 deaths and 199 injuries now linked to the switch and 2.6 million vehicles recalled (Spector 2015)
- May 2015: GM faces criminal charges or a fine. Paid a $35,000,000 fine in 2014 for failing to recall (Matthews and Spector 2015)

- July 2015: CEO and engineer Mary Barra says (Roth 2015)
  - Need an insider—like her, 35 years—to fix the GM culture. Not an outsider
  - Personnel should think of ways to make all kinds of improvements and act on them
  - No more "GM nod"—someone says, at a meeting, that they will do something, but doesn't, and it's OK
  - Drive toward zero defects

Additional information:

1) Engineers were almost totally involved in the 11-year history of this disaster (Valukas 2014)
2) "No demonstrated sense of urgency, right to the very end" (Valukas 2014)
3) Mary Barra, GM GEO, BS in electrical engineering from Kettering University (formerly GMI), MBA Stanford, apparently not a PE (Wikipedia 2015)
4) Ray DeGiorgio, BS in mechanical engineering from Lawrence Technological University, apparently not a PE (Bunkley 2014)

This story will go on and on

Will we learn from it?

Some lessons:

- The industrial exemption invites disasters
- Unless we are careful, any of us can get trapped in a series of unethical actions—Each of us will be tested

What lesson did you learn?

In my view

Licensed practicing engineers are distinguished from unlicensed practicing engineers in three ways:

- First, they are more likely to be technically and otherwise current because continuing education is a condition of on-going licensure in most states
- Second, licensed engineers are required by licensing boards to be ethical or risk losing their licenses

- Third, licensed engineers strongly view themselves as members of a profession whose paramount responsibility is protection of public health, safety, and welfare rather than as being primarily technical employees answerable only to corporate expectations

An NSPE policy calls for phasing out of existing industrial exemptions in state licensing law

What do you think?
What are you doing about it?

Seeing sermons

"…just look at how the company leader behaves and you will know with 100 percent certainty how the employees will act and feel…"

All can lead

Source of quote: Berglas 1997

TOPICS

WHY STUDY ETHICS?

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HOW CAN WE MAKE ETHICAL DECISIONS?

CASE STUDIES

RECAP

As a result of this webinar, you should be able to answer these three questions:

- Why study ethics?
- What is ethics?
- How can we make ethical decisions?

ASCE | KNOWLEDGE & LEARNING

ASCE | KNOWLEDGE & LEARNING

Questions

Comments

Critiques

Tips

Suggestions

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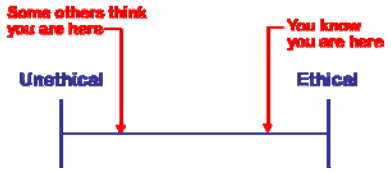
RECAP

Where are we and/or where are we perceived to be on the ethics scale?



Bombarded daily

Why study ethics? Earn and maintain trust

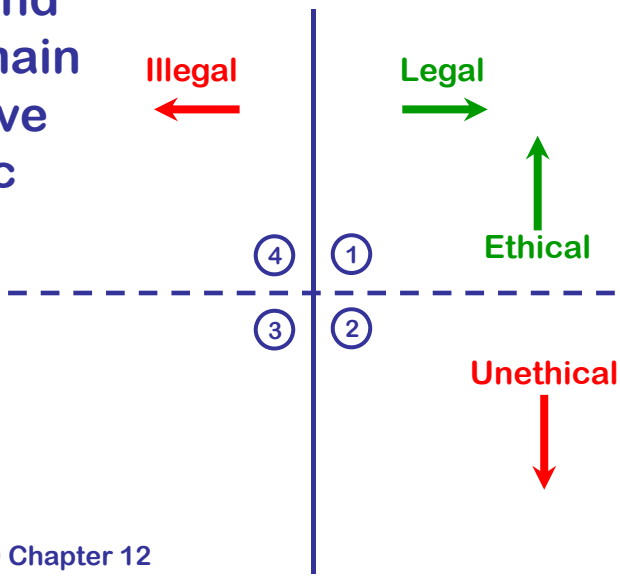
Is it this simple?

Competence + Ethical Behavior

= Sole Source Selection

Ethics: The process used to make value-laden decisions beyond the law in professional matters

This legal and ethical domain helps resolve problematic situations



Source: Walesh, 2000 Chapter 12

When faced with an ethical dilemma, we have tools to use

Tool 1: Codes of ethics

Tool 2: Experienced colleagues

Tool 3: A 9-step process

Tool 4: Application of moral imagination

Tool 5: Frederick's systematic group process

Tool 6: Apps

Citicorp Center case study

GM case study

Ethics dilemmas (in Appendix C)

Seeing sermons

APPENDIX A: RESOURCES

Note: Listed here are sources cited earlier plus additional materials for individual and group study. If you know of a useful resource that should be included, please let me know.

Some images in this handout are used through licensing agreements with iStockphoto.com.

Thank you,
Stu Walesh
stuwalesh@comcast.net

Books and Articles

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"Ethics" (http://www.nspe.org/Ethics/index.html). Note variety of items including, for free, Board of Ethical Review Cases. (1/15)

"Ethics Resource Center" (http://www.ethics.org/). "The Ethics Resource Center (ERC) is a non-profit research organization devoted to the advancement of high ethical standards and practices in public and private institutions." Offers many free reports. (1/15)

"Helping You Engineer Your Future" (http://www.HelpingYouEngineerYourFuture.com) offers ideas and information to help individuals and organizations improve their non-technical or "soft side" knowledge and skills. Provides links to online resources and summarizes news and events. (1/15)

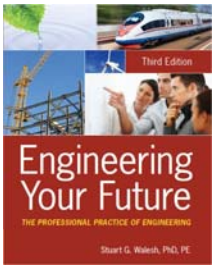
APPENDIX B: PRESENTER

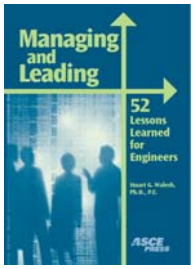
Stuart G. Walesh, PhD, PE provides management, engineering, education/training, and marketing services. He draws on more than 40 years of engineering, education, and management experience in the government and private sectors to help individuals and organizations engineer their futures. Walesh has functioned as a project manager, department head, discipline manager, marketer, professor, and dean of an engineering college.

Representative clients: include ASCE; Boston Society of Civil Engineers; BSA Life Structures; Castilla La Mancha University; CDM; Clark Dietz; Daimler Chrysler; DLZ; Earth Tech; Utility Board of Evansville, IN; Harris County (TX) Flood Control District; Hinshaw & Culbertson; Indiana Department of Natural Resources; Indiana Department of Transportation/Purdue University; J. F. New; Leggette, Brashears & Graham; Midwest Geosciences Group; MSA Professional Services; PBS&J; Town of Pendleton, IN; Pennoni Associates; Taylor Associates; City of Valparaiso, IN; University of New Haven; University of Wisconsin Engineering Professional Development; and Wright Water Engineers.

Walesh authored *Urban Surface Water Management* (Wiley, 1989), *Flying Solo: How to Start an Individual Practitioner Consulting Business* (Hannah Publishing, 2000), *Managing and Leading: 52 Lessons Learned for Engineers* (ASCE, 2004), and *Managing and Leading: 44 Lessons Learned for Pharmacists* (ASHP, 2008, co-authored with Paul Bush, Pharm.D), and *Engineering Your Future: The Professional*

Practice of Engineering - Third Edition (Wiley and ASCE Press, 2012). He is writing *Creativity and Innovation for* Engineers under contract with Pearson Education. Walesh is author or co-author of over 200 publications and presentations and has facilitated or presented over 200 workshops, seminars, webinars, and meetings throughout the U.S.





He is chair of NSPE's Engineering Body of Knowledge Subcommittee and has chaired several national committees.

In 1995, he received the Public Service Award from the Consulting Engineers of Indiana; in 1998, the Distinguished Service Citation from the College of Engineering at the University of Wisconsin; in 2003, the Excellence in Civil Engineering Education Leadership Award presented by ASCE; in 2004, he

was elected an Honorary Member of ASCE; in 2005, he was elected a Diplomate of the American Academy of Water Resource Engineers; in 2007, he was named Engineer of the Year by the Indiana Society of Professional Engineers and received a Distinguished Service Award from the National Society of Professional Engineers; in 2008, he received the William H. Wisely American Civil Engineer Award from ASCE for leadership in promoting engineering as a profession; in 2009, he received the George K. Wadlin Distinguished Service Award from the Civil Engineering Division of the American Society for Engineering Education; in 2010, he was named a Fellow Member of the National Society of Professional Engineers; in 2013, he received an Alumni Achievement Award from Valparaiso University; and in 2014, he received the Thomas A. Morris Leadership Award from the Indiana Society of Professional Engineers.

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APPENDIX C: ETHICS DILEMMAS

1. RAISING THE ANTE

Assume you are an engineer employed by an engineering firm. Your firm designed a bridge for a city. Your contract includes monitoring the bridge project which is being built for the city by a private contractor.

Note: For many interesting ethics case studies refer to "A Question of Ethics," a column in each monthly issue of ASCE's *Civil Engineering,* and "On Ethics," a column in NSPE's *PE,* which is published every two months.

Because of your education and field engineering experience, you are able to suggest techniques and procedures that could save the contractor both time and money, but that is not your responsibility. The work is to be done strictly according to the plans and specifications.

It is immediately after quitting time on a hot summer Friday afternoon. The President of the construction firm comes to the site and offers a cold soft drink to each of his employees.

1. The President offers you a soft drink. May you accept it? Why?
2. What if the President hands each worker and you a pen with his company name on it? Would you accept? Why?
3. Assume the President hands every worker and you a six pack of soft drinks. Is it ethical for you to accept a six pack? Why?
4. What if the President hands every worker a can of beer and offers one to you? Can you ethically accept? Why?

5. What if the President offers every worker a six pack of beer? Would you accept? Why?

6. How about a case of booze? Would you accept? Why?

7. What if the President offers a hat and jacket with the construction company name and logo on it? Would you accept? Why?

Source: Walesh, 2000

2. CODE OF ETHICS FOR NON-MEMBER OF A PROFESSIONAL SOCIETY

Assume you are an engineer who works for an engineering organization and does not belong to any professional society.

1. Are you still bound by the code(s) of the society that serves your profession? For example, are you bound by one or more of the engineering society codes?

2. If not, what is your code? How do you know how to make ethical decisions within the consulting arena?

3. Without an operable code relevant to your profession/specialty, are you jeopardizing co-workers and your company?

4. Should all engineering organization personnel be required to be a member of at least one appropriate professional society so that at least one professional code is operable?

3. CHARGING TIME AND EXPENSES TO OTHER PROJECTS

1. Project A, a lump sum contract, is going very well. It will "come in" way under budget and show a very large profit.
2. Project B, being carried out in the same office, is in deep budget trouble. The budget is "shot" and much work remains to be done.
3. The managers of the two projects discuss the situation. The Project A PM agrees to let some Project B time and expense be charged to Project A. A profit will still be shown by Project A. This approach will help Project B and not have any impact on the Project A client.

4. What quadrant does this situation lie in?

5. Is this arrangement ethical? Is it prudent?

6. Is it prudent?

4. WINDFALL PROFIT

1. Your firm signs a lump sum bridge design contract with a long-standing municipal client. The project was carefully scoped and the budget is tight but achievable.

2. While attending a corporate meeting, the manager of the bridge design project learns that one of the firm's other offices just completed the design of a bridge that, by coincidence, is almost identical.

3. By obtaining the files from the recent project and getting help from personnel who worked on the earlier bridge project, the PM on the new bridge project will be able to bring in the project so that it has 40% profit, that is, 40% of the lump sum fee will be profit. The planned profit was 15%.

4. What quadrant does this situation lie in?

5. Is this one of those serendipitous events that occasionally happens in the consulting business and, therefore, the firm should be happy it happened? After all, the large profit will offset losses on other projects.

6. Or is there an ethical issue? If so, what is it?

7. Bottom line: What is the ethical action to be taken by the firm?

5. POSSIBLE CONFLICT OF INTEREST

1. Nancy Jones, P.E., a principal of your firm, serves as chairman of Floodville's storm drainage board.

2. The board was established by the Floodville city council to advise on the city's general engineering needs for drainage and the related facilities.

3. The board periodically reviews the facilities in light of economic and environmental considerations and submits recommendations for improvements to the city council.

4. When the council determines that changes or additions to the facilities need to be designed, it directs the city's engineering staff to get statements of interest and qualifications from engineering firms.

6. The responses are provided to the storm drainage board for review and returned with recommendations to the city council, which selects a firm to negotiate a contract.

6. Up to now, Jones has advised the city council and its engineering staff that her firm should not be considered because she is on the advisory board.

7. Even so, the city engineering staff now requests Jones' firm, along with other firms, to submit its qualifications for a pending project.

8. Jones discusses the situation openly with the members of the city council, the city attorney, and the city manager, each of whom says it would be proper for Jones' consulting firm to be considered and, if selected, to accept the project, provided Jones does not participate in the considerations and recommendations of the advisory board.

9. What quadrant does this situation lie in?

10. What do you think? Is submittal of qualifications by Jones' firm ethical if Jones removes herself from the board's evaluation process?

Source: Adapted from NSPE Board of Ethical Review

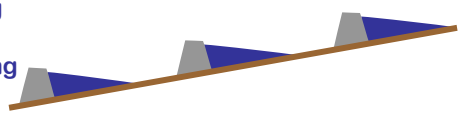
6. CRITICIZING THE WORK OF OTHERS

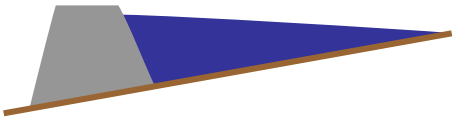
1. In a mid-western state legislature, various bills involving water supply, flood control, and production of electric power are awaiting action.

2. The question of how to achieve the bills' goals most efficiently and economically has been debated within the legislature and in public forums for several years.

3. A state legislative committee on public works calls a hearing to receive comments and recommendations on the various proposals.

4. Terry Techna, P.E., representing the state power commission, testifies that from an engineering standpoint, her team's studies point to a series of low dams as the most efficient solution.





5. A. U. Tility, P.E., representing a private power company, testifies that according to his engineering analysis, a single high dam would produce the same results both faster and for less money.

6. Both engineering witnesses submit voluminous engineering data in support of their positions and do not hesitate to criticize the other's analysis and findings.

7. What do you think? Is it ethical for Techna and Tility to criticize each other's analysis and finding?

8. Wasn't their public disagreement in conflict with the ethical responsibility to enhance their profession(s)?

9. What quadrant does this fall in?

Source: NSPE Board of Ethical Review

7. EXPERT WITNESS COMPENSATION

1. When damages arise from engineering failures, X. Burt Eye, P.E., is often asked to serve as technical advisor in the resulting lawsuit. He provides the contracting attorney expert analysis and consultation on the technical reasons for the alleged failure. Eye may also be called on to testify at the trial as an expert witness in support of his findings.
2. In the past, Eye has provided those services on a per diem basis.
3. In one case, however, Eye is asked by the plaintiff to accept as payment a percentage of the eventual damage award—in the event the plaintiff wins the case. If the defendant comes out on top, however, Eye will not collect a dime. Eye agrees to this proposal.
4. What do you think? Was it ethical for Eye to provide his services for a percentage of a possible court award?
5. What quadrant does this fall in?

Source: NSPE Board of Ethical Review

8. TAKING PAYMENT IN STOCK

1. Horace "Spec" U. Lator, P.E., is retained by a newly incorporated marine terminal company to conduct a feasibility study on the engineering aspects and economic prospects of building some commercial wharves and stevedore and warehouse facilities.
2. A fee is agreed upon, and on receiving the study, company officials tell Lator that they plan to proceed with the project and want him to develop the detailed plans and other engineering aspects of the work.
3. The company president informs Lator that the company has limited cash assets and asks whether he would be willing to take his fee in company stock for both the feasibility study and the detailed engineering.
4. Lator accepts the proposal and performs the services for the company.
5. What quadrant does this lie in?
6. Is it ethical for Lator to accept company stock as payment for his professional consulting services?

Sources: Source: *ET,* 5/88, NSPE Board of Ethical Review

9. RECOGNIZING WORK PRODUCTS OF OTHERS

1. Your firm is retained to prepare a long range wastewater collection and treatment system plan for a rapidly growing community.
2. Early in the project, the City Engineer provides your project manager with dozens of documents such as reports, memoranda, plans (drawings), aerial photographs, and maps. Some of the documents were prepared by local, regional and state government entities and others by consultants.
3. As the project report is being written, a disagreement develops within the project team. It involves the documents provided by the City Engineer. Ideas and information from most of them are being used in the report.
4. One group, the "cut to the chase" members of the project team, argues that there is no need to cite individual documents. A simple acknowledgement statement such as "Documents provided by the City Engineer were used in preparation of this report" would suffice.
5. Others, the "academics," argue that each source should be cited in the text and a list of cited references should appear at the end of the report.
6. What do you think?
7. What quadrant does this lie in?

10. USE OF CD-ROM FOR HIGHWAY DESIGN

1. Engineer A, a chemical engineer with no facilities design and construction experience, receives a solicitation in the mail with the following information:

> *Engineers today cannot afford to pass up a single job that comes by--including construction projects that may be new or unfamiliar.*
>
> *Now--thanks to a revolutionary new CD-ROM--specifying, designing and costing out any construction project is as easy as pointing and clicking your mouse--no matter your design experience. For instance, never designed a highway before? No problem. Just point to the "Highways" window and click.*
>
> *Simply sign and return this letter today and you'll be among the first engineers to see how this full-featured interactive library of standard design can help you work faster than ever and increase your firm's profits.*

2. Engineer A orders the CD-ROM and begins to offer facilities design and construction services.

3. What quadrant does this lie in?

4. Was it ethical for Engineer A to offer facilities design and construction services under the facts presented?

Source: NSPE Case No. 98-3

APPENDIX D: DOES ETHICAL BEHAVIOR "PAY?"

Investor's Business Daily's observation, regarding their 10 secrets to success:

Investor's Business Daily has spent years analyzing leaders and successful people in all walks of life. Most have 10 traits that, when combined, can turn dreams into reality.

So what are the 10 secrets or traits?

1. **HOW YOU THINK IS EVERYTHING: Always be positive. Think success, not failure. Beware of a negative environment.**

2. **DECIDE UPON YOUR TRUE DREAMS AND GOALS: Write down your specific goals and develop a plan to reach them.**

3. **TAKE ACTION: Goals are nothing without action. Don't be afraid to get started now. Just do it.**

4. **NEVER STOP LEARNING: Go back to school or read books. Get training and acquire skills.**

5. **BE PERSISTENT AND WORK HARD: Success is a marathon, not a sprint. Never give up.**

6. **LEARN TO ANALYZE DETAILS: Get all the facts, all the input. Learn from your mistakes.**

7. **FOCUS YOUR TIME AND MONEY: Don't let other people or things distract you.**

8. **DON'T BE AFRAID TO INNOVATE; BE DIFFERENT: Following the herd is a sure way to mediocrity.**

9. **DEAL AND COMMUNICATE WITH PEOPLE EFFECTIVELY: No person is an island. Learn to understand and motivate others.**

10. **BE HONEST AND DEPENDABLE; TAKE RESPONSIBILITY: Otherwise, Numbers 1-9 won't matter.**

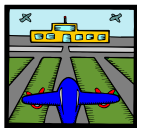
System Corporation studied 3,000 industrial sales representatives (Sheridan 1988). Included were customers' **ratings of the sales representatives.**

Conclusion: **The "ability to establish trust" was more important than likeability.**

Think of your purchases

Before buying one of these, do you need to know that the craftsperson is ethical?

How about one of these?



Failure of one-of-a-kind structures, facilities, and systems designed by major consulting firms can have catastrophic effects

Walkway collapse at the Hyatt Regency Hotel in Kansas City, MO, 1981: 114 people killed and 200 injured.

- This devastating failure was caused by errors.
- Are we ethically bound to be competent?

Source: http://www.eos.uoguelph.ca/webfiles/james/FamousEngrgDisasters.htm (Access date: 8/6/99).

The Five "A"s of Rebuilding Trust

Acknowledge that trust has been broken

Admit your role in causing the breach in trust

Apologize for what happened

Assess where the breakdown in trust happened

Amend the situation by taking corrective action

Source: The Ken Blanchard Companies, 2011

APPENDIX F: WHAT OTHERS SAY ABOUT TRUST

**"I'm not upset that you lied to me;
I'm upset that from now on I can't believe you."
(Friedrich Nietzsche, German philosopher)**

**"If you once forfeit the confidence of fellow citizens,
you can never regain their respect and esteem.
It is true that you may fool all of the people some of the time;
you can even fool some of the people all of the time;
but you can't fool all of the people all of the time."
(Abraham Lincoln, 16th U.S. President)**

How to Obtain Webinar Certificate

Visit www.asce.org/Webinars#policies and follow the brief instructions listed. Group attendees must use the "Order Number" – obtained from your Webinar Purchaser or Coordinator – to obtain a certificate.

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE–SIS Webinar

Date: August 27, 2015 Location: URS Training Room Duration: 1.5 hours	Title: Ethical Behavior, The Key to Earning Trust Speaker: ASCE National Webinar

Description: This webinar offers practical ideas and information to help you navigate those often choppy and sometimes turbulent ethical waters so that you can earn trust. Busy and sometimes harried engineers and other technical professionals frequently encounter varied ethical situations. These challenges may involve issues such as: deciding who is to blame, determining if contractual requirements have been met, utilization of sensitive information, claims of expertise, billing of time, negative impact on the environment, giving and accepting gifts, and treatment of employees. Some ethical issues are readily resolved and others require careful analysis. This 90–minute webinar focuses on the latter by offering practical ideas and information to help you navigate those often choppy and sometimes turbulent ethical waters. Ethics is pragmatic, it is all about earning trust which we can take to the bank, figuratively and literally. In combination with our technical and non–technical expertise, ethical behavior is essential to earning and keeping the trust of colleagues and those we serve. Webinar participants receive a detailed handout on which the webinar will draw. The handout includes references to articles, books, e–newsletters, websites, and other self–study materials such as 10 ethics case studies.

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6	Greg Laragan	glaragan@cableone.net
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ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting in Boise Idaho

Date: September 24, 2015 Location: AECOM Training Room 720 Park Boulevard, Boise, ID Duration: 1 hour	Title: Meridian Road & I-84 Single Point Interchange Speaker: Doug Camenisch, PE (Parametrix)

Description: Parametrix will present on the design and construction of this new interchange project. The Meridian Interchange was first constructed in 1965 with I-84 traffic volumes of 11,000 vehicles per day. Today 128,000 vehicles travel over, under, on and off the interchange each day, far exceeding its capacity. The new Single-Point Urban Interchange (SPUI) interchange is designed to handle 284,000 vehicles per day and is funded through a combination of GARVEE funds and federal transportation funds. This much needed improvement will provide an additional lane in each direction on I-84, additional lanes on Meridian Road, sidewalks, and bicycle lanes. Public art and landscaping are also included in the project through a partnership between ITD and the City of Meridian. The Meridian Road & I-84 Single Point Interchange is planned to open later this year.

Number	Name	Employer/Organization/Status
1	Brayden DuRee	Terracon
2	Ryan Van Leuven	American Geotechnics
3	Paul Michaels	BSU
4	L. Kent Brown	L Kent Brown PE
5	Robert Hamilton	BSU
6	Pete Szobonya	AECOM
7	CHRISTOPHER	AECOM
8	Jim Baker	AECOM
9	Gary Gnoff	AECOM
10	Rob Gronowski	AECOM
11	Seth Olsen	Cartwright
12	Terry Lihle	ACHD
13	Andrew White	BSU
14	Corbin Cools	BSU
15	DAVID McGLASSON	PROVOST & PRITCHARD
16	Tim Brewer	Idaho Power

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

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Number	Name	Employer/Organization/Status
17	JEFF JOHNSON	PARAMETRIX
18	Rikki Godfrey	Parametrix
19	Darren Hippenstiel	RB
20	Stephen Loop	Full Circle Enterprises
21	Heidi CARTER	AECOM
22	DAVE BUTZIER	AECOM
23	PIERSON DOWIT	ACHD
24	Cameron Waite	HDR
25	GREG TADDICKEN	TERRACON
26	Robert Cleere	Lochner
27	DICK JACOBSON	CH2M HILL - RETIRED
28	Henry Ross	Micron
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ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

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ASCE a better world by design

Southern Idaho Section – ASCE Meeting in Eastern Idaho

DATE: Tuesday, October 20, 2015
TIME: 12:00 pm to 1:00 pm
LOCATION: Pizza Pie Café, 3160 E 17th St., Ammon, Idaho

SUBJECT: This will be our first meeting after our summer break for the 2015-2016 season. The Eastern Idaho meetings for ASCE are still moving forward in committee format with hope that we can be approved as a Branch in 2016. We will be discussing our current status and what we can do as a group to become a Branch. Also, we will be having a project presentation from Forsgren Associates by David Noel on their Soda Springs Waste Water Treatment plan project.

Sign-In Sheet:

1. Aaron Swenson email: aswenson@forsgren.com
2. Brandon Harris email: bharris@co.fremont.id.us
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20. Jim Lawrence email: lawrenceja@byui.edu

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ASCE a better world by design

Southern Idaho Section – ASCE Meeting in Eastern Idaho

DATE: **Tuesday, November 17, 2015**
TIME: **12:00 pm**
LOCATION: **Pizza Pie Café, 3160 E 17th St., Ammon, Idaho**

SUBJECT: Engineer-in-Training Drew Meppen and Transportation Staff Engineer Assistant Darrin Johnson, of District 6, will be presenting how they have discovered how to identify travel delays in work zones using Bluetooth technology. A recent press release is below:

"The way it works is Bluetooth receivers log signals of passing Bluetooth-equipped vehicles or hand-held devices and then compare the time traveled against travel time before construction started," Meppen said. "In other words, we identified construction delays by determining the time vehicles enter and leave a work zone.

"To reduce delays in a U.S. 20 reconstruction project north of Ashton last year, we used flaggers instead of a pilot car for part of the test project, saving motorists two and one-half minutes. We hope to post delay times on the 511 Travel Information website to better inform drivers."

This summer, Meppen shot video of himself discussing the technology and interviewing motorists:
Work Zone Mobility

In another innovation, Meppen and Resident Engineer Wade Allen, of District 6, proposed that construction engineers take time-lapse footage of the Del Rio Bridge replacement using personal GoPro cameras. The goal was to record inventive bridge removal and construction practices.
Del Rio Bridge Time-Lapse

ITD awarded Meppen, Johnson and Allen framed certificates signed by agency Director Brian W. Ness and Chief Administrative Officer Charlene McArthur as part of its "Innovate ITD!" program. Innovation, of course, makes ITD more effective and professional, furthering customer service.

Sign-In Sheet:

1. JASHUA LEATHAM email: JASHUA.LEATHAM@GMAIL.COM *
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ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Sign In Roster ASCE-SIS Meeting

Date: November 19, 2015 Location: URS Training Room, Boise, ID Duration: 1 hour	Title: Broadway Avenue Bridge Speaker: Joan Meitl (ACHD)
Description: Joan Meitl of ACHD will discuss recent changes to ACHD's Policy Manual addressing stormwater management. These changes become effective on November 11, 2015. The changes to Sections 8000/8200 of the policy manual include modifications to the design storm, updated IDF curves, enhanced site evaluation requirements, adoption of standards for Green Stormwater Infrastructure (GSI) including permeable pavers, stormwater tree cells, and bioretention facilities, along with other changes.	

Number	Name	Employer/Organization/Status
1	Andy Dalelden	Kittelson & Assoc.
2	GRAE HARPER	HOLLADAY ENGINEERING
3	Henry Ross	Micron Tech.
4	Ryan Van Leuven	American Geotechnics
5	Braydan DuRee	Terracon
6	PIERSON DOWTT	ACHD
7	Matt Degen	ACHD
8	Gary Mokes	Stanley
9	Kaleb Jones	Performance Engineers
10	LUCAS GLAUSER	DEA
11	~~Joe~~	
12	Clair A. Klaite	Terracon
13	Daniel Jones	HDR dan.jones@hdrinc.com
14	Paul Otter	Retired
15	Corinne Graham	T-O Engineers
16	JAMES HANLEY	KM Engineering
17	Rob Cleere	Lochner
18	Andrew Newell	KM Engineering

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

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Number	Name	Employer/Organization/Status
19	JEFF JONES	SIX MILE ENG.
20	Jenn Hupp	Six Mile
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Idaho Society of Professional Engineers

SOUTHWEST CHAPTER

SIGN-IN ROSTER

EVENT TITLE: ACHD's Policy Manual addressing stormwater management. Recent changes to manual will be discussed.

DATE: November 19, 2015

SCHEDULED DURATION: 12:00 pm - 1:00 pm 1 hour

SPEAKER: Joan Meitl of ACHD

PDH: 1.0

LOCATION: AECOM (formerly URS) Training Room BOISE, IDAHO

NAME	EMPLOYER	EMAIL	SIGNATURE	NSPE MEMBER?
Seth Olsen	Cartwright Engineers	setho@cartwright-aec.com	Seth Olsen	[✓]Yes [ ]No
Rick Collingwood	IDWR	rjmjo1@cableone.net	Rick Collingwood	[X]Yes [ ]No
Gary Moles	Stanley	garymoles@cableone.net		[ ]Yes [ ]No
Lena Gandiaga	CH2M	Lena.Gandiaga@ch2m.com	[signature]	[X]Yes [ ]No
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Bill Vermette	Micron	BRVERMETTE@MICRON.COM	W. Vermette	[ ]Yes [X]No
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Lewis Venard			Lew Venard	[✓]Yes [ ]No
Matt Dorr	KM Engineers	mdorr@kmengllp.com	[signature]	[ ]Yes [X]No
JAMES Hawle,	KM Engineers	JHAWles@KmengLLP.com	[signature]	

ASCE a better world by design

Southern Idaho Section – ASCE Meeting in Eastern Idaho

DATE: Tuesday, December 15, 2015
TIME: 12:00 pm
LOCATION: Pizza Pie Café, 3160 E 17th St., Ammon, Idaho

SUBJECT: Fremont County Public Works Director Brandon Harris, P.E. will present on the County's closure of their existing landfill and the construction of a new transfer station to handle solid waste. The funding of the projects will also be discussed.

Sign-In Sheet:

1. John Gilmore email: jp.gilmore@hotmail.com
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21. email: