

2011-12

**ANNUAL REPORT
CIVIL ENGINEERING**

Montana State University - Bozeman

Bozeman, MT 59717

Brett Gunnink
Department Head

Offering:

Bachelor of Science in Civil Engineering

Bachelor of Science in Construction Engineering Technology

Master of Science in Civil Engineering

Master of Science in Environmental Engineering

Master of Construction Engineering Management

and, in conjunction with the College of Engineering

Doctor of Philosophy in Engineering with options in

Applied Mechanics, Civil Engineering, and Environmental Engineering

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I. Overview

Arrivals:

Annaliesa Fry

Departures:

Christy Huddleston

Joan Muhs- Mauck

Promotions:

Michael Berry

A. Table 1. Funding Sources for the Civil Engineering Department (in thousands of dollars)

Funding Source	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	% OF 11-12 Budget
Instructional Salary/IncSU	1489	1555	1650 ^a	1708	2278 ^b	2261 ^c	1695 ^e	1926	75
Instructional Operations	12	5	9	11	8	40	54	60	2
Program Student Fees	45	48	53	53	53	68	72	96	4
CFAC & EFAC	140	12	18	117	14	11	82	83	3
Program Mod	25	0	12	0	0	0	0	0	0
Agricultural Exp Station	42	21			-	-	-	-	-
Engineering Exp Station	99	91	86	76	74	47 ^d	15	-	-
Grants and Contracts	545	540	817	1410	787	317	516	394	16
Total	2397	2272	2645	3375	3214	2744	2434	2559	100

Includes Permanent Base Budget Allocation from College of Ag for Stein & Cahoon (\$42,905)

a FY 08-09 includes \$497.5K for personnel benefits not included in previous years.

b FY 09-10 Includes \$518K for personnel benefits

c FY09-10 includes \$12K for personnel benefits

d FY 10-11 Personnel benefits budget returned to MSU Central

B. Table 2. Student Enrollment and Instructional Funding (numbers in parentheses are the percent change from the previous year)

	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12
Student Enrollment	618 (-2%)	599 (-3%)	647 (-3%)	695 (+7%)	674 (-3%)	647 (-4%)	621 (-4%)	641 (+3%)
Instructional Budget (thousands of dollars) (Sal+BA+Ops+PM+PSF)	1546 (+2%)	1552 (+0%)	1724 (+11%)	1772 (+3%)	2339 (+32%) ^a	2369 (+1%) ^b	1938 (-18%) ^c	2082 (+7%)
Instructional Dollars per Student	2502 (+4%)	1591 (+4%)	2665 (+3%)	2550 (-4%)	3471 (+36%) ^a	3662 (+6%) ^b	3204 (-13%) ^c	3079 (-4%)

a 28% of funding increase from 07/08 to 06/09, was due to personnel benefit costs added to Instructional.

b 1 % increase from 07/09 to 06/10, was due to increased personnel benefit costs added to Instructional

c 18% decrease from 07/10-06/11 was due in part to personnel benefits returned to MSU Central.

C. Table 3. CE and CET 10 Year Enrollment by Class

Year	Freshman		Sophomore		Junior		Senior		Total		Total Undergrad CE and CET
	CE	CET	CE	CET	CE	CET	CE	CET	CE	CET	
02-03	100	45	71	66	63	49	113	91	277	251	528
03-04	97	47	75	47	68	64	99	89	339	261	600
04-05	87	52	55	58	62	49	119	102	323	261	584
05-06	82	51	71	43	58	57	129	86	340	237	577
06-07	98	61	72	50	69	68	113	85	352	264	616
07-08	111	63	70	52	63	64	129	109	373	288	661
08-09	91	58	73	50	73	64	112	115	279	287	566
09-10	92	42	65	57	62	46	126	117	345	262	607
10-11	82	45	75	31	66	48	131	97	354	221	575
11-12	97	53	58	33	82	45	147	80	384	211	595
Average	94	52	69	49	67	55	122	97	352	253	605

D. Table 4. Success Rates By CE Students in the FE Exam

Year	Number Passing	Number Failing	Pass Rate (%)	National Average
02-03	66	3	96	79
03-04	50	3	94	78
04-05	55	4	93	78
05-06	45	7	87	70
06-07	46	2	96	74
07-08	43	11	80	72
08-09	50	2	96	74
09-10	55	0	100	75
10-11	59	3	95	74
11-12	41	8	84	73

E. Table 5. Success Rates By CET Students in the CQE Exam

Year	Number Passing	Number Failing	Pass Rate%	National Average
02-03	44	16	75	71
03-04	27	13	73	69
04-05	48	15	75	72
05-06	30	15	72	70
06-07	43	12	75	71
07-08	35	11	76	70
08-09	52	7	79	72
09-10	54	7	79	72
10-11	52	8	78	72
11-12	48	8	76	70

F. Table 6. Employment Placement History of Graduates

Graduating Class	Number of CE and CET Graduates	Number Employed in One Year	Number Continuing in Grad School	Percent Employed or known to be in Graduate School
2002	113	66	15	72%
2003	117	81	13	80%
2004	99	68	11	80%
2005	118	94	8	86%
2006	114	83	9	81%
2007	84	68	9	90%
2008	109	85	8	85%
2009	113	59	14	65%
2010	100	36	15	51%
2011	102	59	9	67%

G. Table 7 a. Departmental Staff

Civil Engineering	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12
Departmental Staff	7	6	6	6	6	6	5	6
Contract Adjunct Faculty	8	7	6	7	7	4	5	6
Career Adjunct Faculty	3	2	2	2	2	2	2	2
Assistant Professor	4	5	4	4	4	4	3	3
Associate Professor	8	6	5	5	5	5	6	5
Professor	6	7	9	10	10	11	11	11
Teaching Emeritus	1	2	1	1	1	0	0	0
LTAP	3	3	3	3	3	0	0	0
Total	40	39	38	38	38	32	31	33

H. Table 7 b. Personnel

Full Professor	Associate Professor	Assistant Professor	Contract Adjunct	Career Adjunct	Teaching Emeritus	Staff
Adams	Al-Kaisy	Berry	Blank	Larsson		Banfield
Camper	Jones	Lutey	Keller	Smith, D		Guilford-Fry
Cahoon	Knoll	McGowen	McKittrick			Hecox
Cunningham	Miller		Morrical			Huddleston
Gunnink	Mokwa		Peterson			Muhs Mauck
Lang			Smith			Wesen
Lewandowski						
Perkins						
Stein						
Stephens						
VanLuchene						

II. Department Research and Outreach Activities

A. Table 8. Summary of the Department's 2011-12 Research and Outreach Activities

PI NAME	SPONSOR	Index #	TITLE	11/12 Expend	TOTAL AWARD	End Date	F&A's to CE
Adams	NSF	4W3348	Influence of Atmospheric Conditions	\$72,962	\$349,249	9/30/2013	100%
Al-Kaisy	FEDHWY - WTI	4W2788	FWS Traffic	\$22	\$100,000	1/31/2012	33%
Al-Kaisy	FEDHWY - WTI	4W2833	ITS Technologies	\$992	\$120,000	12/31/2011	33%
Al-Kaisy	ODOT - WTI	4W3603	Variable Speed Limit	\$51,125	\$150,000	9/30/2013	30%
Berry/Stephens	NSF - WTI	4W2540	Building Green	\$10,018	\$311,876	9/30/2012	67%
Berry/Stephens	MDT-WTI	4W2780	Pile Cap	\$33,413	\$88,161	11/30/2012	67%
Berry/Stephens	MDT-WTI	4W2970	RAP	\$35,149	\$103,892	7/31/2011	50%
Cuelho	MDOT - WTI	4W3508	Eval of New Arch Bridge	\$23,659	\$43,278	9/13/2012	100%
Jones	Bridger Bowl	4W1434	Wastewater System	\$15,110	\$17,662	1/31/2013	100%
Miller	MJ Murdock	4W3574	Micro X-ray CT Scanner	\$301,000	\$301,000	9/01/2012	
Mokwa	MDT	4W3527	Traction Sanding Material	\$20,689	\$39,962	11/30/2012	67%
Perkins	NSF -WTI	4W3072	Effect of Cold Temp on Shear Strength	\$6,820	78,841	11/30/2012	100%
Perkins/Cuehlo	Alaska DOT	4W3615	Geosynthetic Design	\$28,026	\$70,000	12/31/2012	20%
Stein	World Wildlife	4W3093	Womack Grad Fellowship	\$11,250	\$30,000	5/31/2012	
Stein	NSF - CBE	4W3245	Plant, Season and Microbial Control	\$113,600	\$302,853	7/31/2013	
Stephens	NORDAK	4W4059	MT Highways Bakken Oil	\$0	\$4,207	5/31/2013	75%
Stephens	MDT - WTI	4W3526	2011 Summer Transport	\$16,797	\$38,762	9/30/2011	33%

			Institute				
Stephens	MTDEQ - WTI	4WR171	Sorbent Modified	\$38,903	\$97,480	12/30/2011	33%
SUB TOTAL				\$779,535	\$2,247,223		
Berry	Beaudette Engineering	433069	Glulam Bow String Trusses	\$2,153	\$5,637	12/30/2011	
Miller	Nat'l Ski Areas Assoc. Explosives	92364	Snow Science Research	\$2,679	\$5,000		
Miller	Academy of Applied Science	429870	Engr Apprenticeship	\$7,535	\$132,908		
TOTAL				\$791,902	\$2,390,768		

III. Department Facilities

A. Table 9. Acquisitions During 2011-12

Item	Location	Cost(\$K)	Funding Source
Epson Projector D 6150	CB 205, rec. desk	1.5	Instructional
Latitude Laptop, E6420	CB 205, rec. desk	1.3	Instructional
Equipment for Mechanics Lab	104A Cobleigh	80.1	EFAC
Compact DQ Chassis (Miller/Bones)	104A Cobleigh	1.3	92364-EN021; Engineering Outreach
32 Channel voltage module (bones)	104A Cobleigh	2.3	92364-EN021; Engineering Outreach
Latitude Laptop E6420	205 Cobleigh	1.3	91535 – CE Computer Facilities & Equipment
Laptop	204 Cobleigh	1.2	91535 – CE Computer Facilities & Equipment
Remote System (O/H Anderson Service_	Structures Lab	1.6	433425 O/H Crane Safety
SkyScan 1173 Micro CT	110	20.0	IDC Civil Engr
SkyScan 1173 Micro CT	110	19.0	465100 –COE match
15" MBP Apple Core Thunderbolt	224 Cobleigh	3.5	Start-up Berry
Total		133.1	

IV. Student Organizations

A. AGC

Student Chapter Membership

Number of Student Chapter Members: 24 -This number has been consistent over the previous year

Number of faculty and staff members who are current AGC members: 2

B. ASCE

The Montana State University ASCE Student Chapter, led by faculty advisor, Dr. Michael Berry, continues to keep an active and successful calendar. Students participated in the usual planning meeting, but also continued the tradition of good stewardship with participation in the following activities: Habitat for Humanity Porch Project, Montana Conservation Corp in a public park, Pre-Career Fair Mixer, Montana Math Counts, Fundraising at the MSU Football games and the annual Bridge Design competition in Seattle.

C. BREN

The BREN chapter exercised a hiatus during the 2011 -2012 academic year.

D. Chi Epsilon

Chi Epsilon is the Civil Engineering Honors Society. We strive to gather a group of intelligent, driven individuals that want to represent our profession and department while serving our community. Our members are selected based on their scholarship, character, practicality and sociability and we attempt to instill these qualities in our fellow student. One major goal of our group is to provide service within the College of Engineering. Over the past few years, we have offered free tutoring in engineering mechanics courses every Tuesday evening. This has been a very successful program that is valued throughout the college. We are also proud to offer senior level students with the opportunity to purchase Fundamentals of Engineering (FE) Exam study material at a discounted price. While this is our major fundraiser for the club, it also makes it very easy for our fellow students to acquire the resources they need. We also urge our members to get involved with various activities and events that are put on in our community. Our group also holds regular meetings to discuss how our group is run, and to enjoy each other's company. Chi Epsilon participated in the following: Science Olympiad, Engineer-a-Thon, Lego Robotics Competition, FE Review Material Sales, and Engineering Mechanics Tutoring.

E. MARLS

The MARLS Chapter was represented by 2 members at the annual conference in Great Falls.

F. ITE

STUDENT CHAPTER MEMBERSHIP

Number of student chapter members: 32 (as of March 31, 20012)

A net increase of 3 members over the previous year

Number of faculty and staff members who are current ITE members: 5

MSU-ITE has hosted three technical presentations, two career development presentations, an informational meeting for members, and a highway clean up. In addition, the MSU-ITE hosted MDT's "Respect the Cage" event to raise seat belt awareness on campus and a career fair mixer for ITE student members and some professionals. Each of these meetings provided an opportunity to sign up and welcome new members, introduce officers and inform the membership about ITE activities. Two officers meetings were held in the fall to plan for the year.

G. Sigma Lamda Chi

Sigma Lamda Chi chapter has no annual report due to low participation in 2011-2012.

V. Department Scholarship Program

Allied Engineering Endowed Fund

Brady Lassila, Great Falls, MT, Senior/Grad Student, CE

Reed Andersen Memorial

Jonthan Lovgren, Bozeman, MT, Grad Student, CE

Will Andrews Memorial Scholarship

Eric Dietrich, Portland, OR, Junior, CE/BREN

Paul Kolnik, East Helena, MT, Senior, CE

ASCE Student Chapter Scholarship

Nathan Ward, Bozeman, MT, Senior, CE

Associates of the MT Contractors Assoc Scholarship

Brandon Nowlan, Spirit Lake, ID, Senior, CET

Barnard Companies Scholarship

Clinton Van Voast, Turner, MT, Junior, CET

Beaudette Consulting Engineers Scholarship

Samuel Baker, Columbus, MT, Junior, CE

Beavers Heavy Construction Scholarship

Steven Costle, Bozeman, MT, Senior, CET

Brandon Nowlan, Spirit Lake, ID, Senior, CET

Clifford David Blankenship Memorial

Patrick McGunagle, Columbia Falls, MT, Sophomore, CE/BREN

Century Companies

Taylor Plante, Scobey, MT, Sophomore, CET

Chi Epsilon Scholarship

Brian Zirbel, Bozeman, MT, Sophomore, CE

Civil Engineering Scholarship Endowment

Ashley Kroon, Wilsall, MT, Junior, CE/BREN

DJ&A

Alyssa Gulley, Portland, OR, Junior, CE/BREN

E. R. Dodge Scholarship

Andrew Hansen, San Diego, CA, Junior, CE

David McKay, Great Falls, MT, Sophomore, CE

Tessa Mosdal, Roundup, MT, Senior, CE

Thomas Phillips Duganz Memorial

Samantha Lidstrom, Missoula, MT, Grad Student, CE

Stanley H. Fistedis Scholarship

Jonathan Lovgren, Bozeman, MT, Grad Student, CE

Allison Smith, Bozeman, MT, Junior, CE/BREN

B. E. Grant Memorial Scholarship

Karlynn Therrian, Noxon, MT, Sophomore, CE/BREN

Great West Engineering Scholarship

Frederick Granger, Highwood, MT, Senior, CET

Amy Habets Memorial Scholarship

Kirstyn Young, Salem, OR, Senior, CE

Thomas Charles Haggerty Memorial Scholarship

Andrew Olson, Hill City, Idaho, Senior, CE/BREN

Holcim/Kenyon-Noble Scholarship

David Schroeder, Bozeman, MT, Grad Student, CE

Homebuilders Association of Billings Scholarship

Gary Fox, Bozeman, MT, Senior, CE

William A. Hunt Endowed Scholarship in Civil Engr.

Josephine Bones, Bigfork, MT, Grad Student, CE

O. I. and Dorothy Jackson Scholarship

Michael Zundel, Billings, MT, Junior, CE/BREN

Martin and Dixie Jacobson Scholarship

Rebecca Gutknecht, Centennial, CO, Freshman, CE

Lauren Krogstad Memorial Scholarship Fund

Jonathan Lovgren, Bozeman, MT, Grad Student, CE

Arden and Lois Lambert Scholarship

Rebecca Gutknecht, Centennial, CO, Freshman, CE

Lang Family Scholarship

Michael Bonde, Buffalo, MN, Sophomore, CE

Glenn H. and Lyla E. Lehrer Construction Schol.

Brandon Nowlan, Spirit Lake, ID, Senior, CET

Johnson and Rita Liao - Friends of the South Sea

Brady Lassila, Great Falls, MT, Senior/Grad Student, CE

Robert L. & Jan M. Livesay Scholarship

Matthew Schaible, Missoula, MT, Senior, CE

W. W. Livingston Memorial Scholarship

Cooper Krause, Breckenridge, CO, Senior, CE

Joel Long Professor Scholarship

Blake Bjornson, Missoula, MT, Senior, CE/BREN

Kirk Gordon, Kalispell, MT, Junior, CE

Kevin Marsh, Helena, MT, Junior, CE

Erin Ryan, Deer Lodge, Junior, CE/BREN

Torey Seward, Columbia Falls, Sophomore, CE

Brieann Webber, Kalispell, MT, Senior, CE/BREN

Joel T. Long Scholarship

Yasmin Chaudhry, Missoula, MT, Freshman, CE/BREN

Tyler Nansel, Billings, MT, Freshman, CE

Alex Weeks, Culbertson, MT, Sophomore, CET

Glen L. Martin Scholarship

Michael Bestwick, Whitefish, MT, Senior, CE

Howard J. McCrodden Memorial Scholarship

William Morgan, Reno, NV, Senior, CET

The Lyndon Meeks Memorial Scholarship

Beecher, Havre, MT, Senior, CET

Montana Concrete Producers Scholarship

Dennis Laubach, Power, MT, Junior, CET

Montana Contractors' Association Scholarship

Cody Armknecht, Bozeman, MT, Senior, CET

Andrew Barthel, Wibaux, MT, Senior, CET

Dennis Laubach, Power, MT, Junior, CET

MT Sect. ASCE-Martin E. Moss Memorial Scholarship

Andrew Benson, Belgrade, MT, Sophomore, CE

Yida Fang, Flushing, NY, Junior, CE

Sarah Foster, Boise, ID, Sophomore, CE/BREN

Tyler Hessler, Great Falls, MT, Senior/Grad Student, CE

Timothy Kienitz, Billings, MT, Senior, CE

Aubrey Laine, Great Falls, MT, Senior/Grad Student, CE

Brady Lassila, Great Falls, MT, Senior/Grad Student, CE

A Colton Litzenberger, Bozeman, MT, Senior, CE

David Schroeder, Bozeman, Grad Student, CE

Lisa Woerlein, Missoula, MT, Sophomore, CE

Brian Zirbel, Bozeman, MT, Sophomore, CE

MT Sub-section ASAE Scholarships & Awards

Sarah Foster, Boise, ID, Sophomore, CE/BREN

John H. and Rosalie L. Morrison Scholarship

Josephine Bones, Big Fork, MT, Grad Student, CE

Thomas Flynn, Shelby, MT, Grad Student, ENVE

Tyler Hessler, Great Falls, MT Senior/Grad Student, CE

Stephanie Lang, Columbia, MO, Senior, CE

Kyle Palagi, Butte, MT, Grad Student, CE

Owen J. Murphy/Sletten Construction Company Fund

Trace Timmer, Great Falls, MT, Freshman, CET

William Olson AGC Student Chapter Scholarship

Frederick Granger, Highwood, MT Senior, CET

Peccia & Associates CE Scholarship

Nours Mohammed, Billings, MT, Grad Student, CE

L.J. Petouhoff Scholarship

Bruce Beecher, Havre, MT, Senior CET

Sanderson Stewart Engineering Scholarship

Rachel Barthel, Wibaux, MT Freshman, CE

Mary & Robert Sanks Graduate Fellowship

Kathryn Plymesser, Livingston, MT, Grad Student, CE

Daniel Swanson, Bozeman, MT, Grad Student, EENV

Robert C. Smith Scholarship

Nathan Ward, Bozeman, MT, Senior, CE

Kenneth E. Tait Graduate Fellowship

Tim White, Bozeman, MT, Grad Student, CE

Taylor Group Scholarship

Allison Smith, Bozeman, MT, Junior, CE/BREN

Thomas, Dean & Hoskins

Andrew Benson, Bozeman, MT, Sophomore, CE

T.H. Thomas Engineering Scholarship

Bronwyn Rolph, Seattle, WA, Senior, CE

Aaron Howard Townsend Civil Engineering Schol.

Erin Hafla, Idaho Falls, ID, Junior, CE/BREN

Tri-State Truck & Equipment

Frederick Granger, Highwood, MT, Senior, CET

Fred Videon Scholarship Fund

Camille Johnson, Billings, MT, Senior, CE

Jack Walsh Scholarship

Christina Egger, Missoula, MT, Senior, CE/BREN

Westech Engineering

Jessica Whalen, Bozeman, MT, Sophomore, CE

J. J. (Jack) White Scholarship

Steven Costle, Bozeman, MT, Senior, CET

Theodore T. Williams Faculty Undergrad Scholarship

Kirk Haas, Belgrade, MT, Freshman, CE

COLLEGE OF ENGINEERING SCHOLARSHIPS:**Nicholas Clare Memorial**

Alissa Bleem, Fort Collins, CO, Junior, CHBE

Durkee

Tyler Ragen, Auburn, WA, Junior, CET

Melissa Whalen, Bozeman, MT, Junior, CE

Lester & Audrey P. Hogan

Christopher Allen, El Darado Hills, CA, Grad Student, EENV

Legacy

Andrew Hansen, San Diego, CA, Freshman, CE

Sarah Plath, Billings, MT, Junior, CE/BREN

Robert C. Martin

David Schroeder, Bozeman, MT, Senior/Grad Student, CE

W. Paul Schmechel

Michael Zundel, Billings, MT, Junior, CE/BREN

Mark A. Robinson

Blake Bjornson, Missoula, MT, Junior, CE/BREN

Paul Kolnik, East Helena, MT, Senior, CE

VI. Faculty and Staff Recognition

Dr. Theodore Lang was presented with the Alumni-Chamber of Commerce Award for Excellence.

VII. CE External Advisory Council

<p>Brett Gunnink, Ph.D., P.E. Department Head Civil Engineering Montana State University Bozeman, MT 59717-3900 406-994-2115 bgunnink@ce.montana.edu</p>	<p>Warren Jones, Ph.D. Program Coordinator Civil Engineering Montana State University Bozeman, MT 59717-3900 406-994-6139 warren_j@erc.montana.edu</p>	<p>Brent Campbell WGM Group, Inc. 111 East Broadway Missoula, MT 59802 Bcampbell@wgmgroup.com BSCE 1986</p>	<p>Scott Brady/John Morrison Barnard Construction 701 Gold Ave. Bozeman, MT 59715 406-586-1995 scott.brady@barnard-inc.com CET 1986</p>	<p>David Crawford, P.E. Vice President/Area Mgr. Thomas, Dean & Hoskins, Inc. 108 West Babcock Bozeman, MT 59715 406-586-0277 406-580-7612 cell BSCE 1985 MSCE 1987</p>
	<p>Dan Hertel Retired Barnard Construction 701 Gold Ave. Bozeman, MT 59715 406-586-1995 danosan@q.com BSCET 1982</p>	<p>John Keil Test Box Project Leader The Boeing Company PO Box 3703 MC 02-FC Seattle, WA 98124-2207 425-717-3654 206-310-3821 cell john.d.keil@boeing.com BSCE</p>	<p>Jerry Miller Regional Vice President Ames Construction Inc. Southwest Region 8333 E. Hartford Drive Scottsdale, AZ 85255 602-431-2111 602-540-0139 cell jerry.miller@amesco.com BSCE 1996</p>	<p>Steve Morrical Technical Service Engineer Holcim (US) Inc. 4070 Trident Road Three Forks, MT 59752 406-285-3990 steve.morriral@holcim.com BSCET 1974</p>
<p>Tim Newman Project Administration Sletton Construction PO Box 201001 Great Falls, MT 59410 tim@sletten-inc.com BSCET</p>	<p>Phil Odegard, P.E. Senior Project Manager HKM 7 West 6th Ave, Suite 4W PO Box 1009 Helena, MT 59624 podegard@hkminc.com BSCE 1979</p>	<p>Sarah Sanderson Staff Environmental Engineer Terracon 2110 Overland Ave., Ste. 124 Billings, MT 59102 sssanderson@terracon.com MS ChemE 1996</p>	<p>Danielle R. Scharf, P.E., PTOE, LEED AP Sanderson Stewart 106 East Babcock Bozeman, MT 59715 406-522-9876 dscharf@sandersonstewart.com BSCCE 2001 MSCE 2002</p>	<p>Gary Simonich DOWL HKM 222 N 32nd Street, Suite 700 Billings, MT 59101 406-656-6399 cell: 406-491-1126 gsimonich@hkminc.com BSCE 1974</p>
<p>Roger Somerville Morrison Maierle, Inc. 2880 Technology Blvd W Bozeman, MT 59715 406-587-0721 rsomerville@m-m.net CE 1971</p>	<p>Jim Stenger Kiewit Infrastructure West Co. 2215 E 1st Street Vancouver, WA 98661 360-694-1201 c: 360-772-1356 jim.stenger@kiewit.com CET 1996</p>	<p>Wendy Weaver, P.E. LEED AP. Green Stone consulting Sustainability Consultant http://www.greenstone-consulting.com fishngirl@gmail.com BSCE/BREN 1996</p>	<p>Dan Wetstein Vice President CH2M Hill 9191 South Jamaica Street Englewood, CO 80112 303-771-0900 Dan.Wetstein@CH2M.com BSCE 1977 MSCE 1979</p>	

VIII. Financial Contributions to the Department

A. Fiscal Year 2012 Summary

Total Contributions: \$325,005

B. Fiscal Year 2012 Contributions by Fund

<i>FUND</i>	<i>AMOUNT</i>
O I & Dorothy D Jackson Scholarship	250.00
E R Dodge Scholarship	100.00
Montana Contractors Association Scholarship	9,512.50
Martin E Moss Memorial Scholarship	700.00
Chi Epsilon Scholarship Endowment	1,010.00
John H & Rosalie L Morrison Scholarship	4,071.41
Stanley H Fistedis Memorial Scholarship	500.00
Civil Engineering Development	5,100.00
Lauren Krogstad Memorial Scholarship	325.00
CET Development Endowment	16,880.00
Thomas Phillips Duganz Memorial Scholarship	2,500.00
DJA, P.C. Scholarship	300.00
Associates of the Montana Contractors Association Scholarship	6,662.50
Westech Engineering Inc. Scholarship	2,500.00
William A. Hunt Civil Engineering Scholarship	1,650.00
Barnard Companies Scholarship	500.00
Fred Videon Scholarship	100.00
Lyndon Meeks Memorial Scholarship	30.00
Peccia & Assoc Civil Engineering Scholarship	1,000.00

Lang Family Scholarship	800.00
Civil Engineering Scholarship	1,450.00
Institute of Transportation Engineers	1,010.00
Nicholas J. Clare Memorial	1,111.11
John J. Walsh Memorial Scholarship	540.00
Great West Engineering Scholarship	2,500.00
Beavers Heavy Construction Scholarship	153,000.00
Willis & Nancy Wetstein Civil Engineering Scholarship	4,849.75
T.H. Thomas Engineering Scholarship	11,519.00
James B. Wamboldt Memorial Scholarship	25.00
MSU Chapter - Engineers Without Borders	40,700.00
Frederick Brian Walter Civil Engineering Scholarship	53,809.05
	325,005.32

C. Fiscal Year 2012 Contributions by Level of Giving

<i>Level of Giving</i>	<i>NAME</i>	
\$1 - \$99	Joan Berg	
	Robert & Cynthia Crayton	
	Fred & Vernetta Dalbec	
	Lyle Meeks	
	Richard Nordquist	
	Paul Sanford	
	Kevin Retchless & Therese Weller	
	\$100 - \$499	William & Rebecca Alzheimer
		Timothy Crennen & Deborah Hughes-Crennen
		Alfred PhD & Brooke Cunningham
DJ&A, P.C.		
Patricia Erwin-Smith		
Robin & Katherine Grossman		
Scott Keller & Marie Nopper		
Roger Kruckenberg & Penny Knoll		
Arlin & Pam Krogstad		
Venkatachalam & Linda Lakshminarayanan		

MDU Resources Foundation
 Helen Morrison Hoffman
 Northern Industrial Hygiene, Inc.
 Phillip Odegard
 Kevin Oliver
 Larry & Barbara Olson
 John & Shelley Pack
 Robert & Judith Peters
 Jereen Rice
 Emile & Letitia Ruffier
 Roger & Melissa Somerville
 Julie Videon
\$500 - \$2499 Billmayer & Hafferman, Inc.
 Chi Epsilon
 Ronald & Marie Clare
 ConocoPhillips
 Jeanne Fistedis
 Mark & Chris Golden
 Michael Gutkoski & Lioudmila Zubkovskaya
 Hess Corporation
 William Hunt
 James & Vonda Laird
 Betty & Theodore Lang
 Montana Chapter I.T.E.
 Phillip & Patti Pollard
 Robert Peccia & Assoc
 James & Linda Senvold
 The Taylor Group
 Thomas Villeneuve & Mary McKinnon
 Catherine Walsh
\$2500 - \$4999 Steven & Susan Duganz
 Great West Engineering
 John Jr. & Minh Morrison
 Delbert & Dena Richter
 Daniel & Kathleen Wetstein
 Willis & Nancy Wetstein
 John & J. Kristi Yarnall
\$5000 and over Timothy & Mary Barnard
 Beavers Charitable Trust
 Century Companies, Inc
 Chevron Corporation
 Cynthia Foster

Virginia Holman
 Montana Contractors Association
 Morrison Maierle, Inc.
 Marillyn Thomas
 Frederick Walter

IX. Enrollment and Graduate Summaries

A. CE/CET Internships

<u>Students Name</u>	<u>Major</u>	<u>Internship Company</u>	<u>Location</u>
Jason Arrowsmith	MCEM	Martel Construction	Bozeman, MT
Isaac Boelman	CE	City of Great Falls - Engineering	Great Falls, MT
James Callas	CET	US Forest Service	Montana
Steven Costle	CET	Big Sky Masonry	Belgrade, MT
Mark Doney	CET	Century Companies	Lewistown, MT
Michael Dormady	CET	Dunkin-Bush	Alaska
Andrew Harmon	CET	NorPac Sheet Metal	Billings, MT
Ben Jacobsen	CET	Prince, Inc	Billings, MT
Cole Jensen	CET-1	LS Jensen Construction	Missoula, MT
Michael Lutes	CE	Wickens Construction	Lewistown, MT
Tonya Miller	MCEM	US Forest Service	Malta, MT
Chantry Myers	CET	AM Welles	Bozeman, MT
Alex Phillips	CET	KB Building	Bozeman, MT
Ben Quay	CET	MDT	Bozeman, MT
Jay (Chase) Scheeler	CET-1	Centennial Collabrative	Gillette, WY
Kyle Shuck	CE	MDT	Billings, MT
Colton Small	CET	DPS/Small Construction	Lame Deer, MT
Owen Strods	CET	Barnard	Los Vaqueros, CA
Mitchell Urdahl	CET	Dowl/HKM Engineering	Billings, MT
Nathan Ward	CE	KC Harvey Environmental	Rawlings, Wyoming
Ryan Whitney	CE	MDT	Bozeman, MT
Brandon Whitworth	CET	MDT	Glendive, MT
Nathan Young	CE	Stelling Engineers	Great Falls, MT

B. Civil Engineering (including Bio-Resources Option) Graduates

<u>Name</u>	<u>Semester Graduated</u>	<u>Company</u>
Alqatami, Bader F.	Spring 2012	Kuwaiti Manager Company
Bakker, Steven P.	Spring 2012	Peccia & Associates
Ballew, Mark William Jr.	Spring 2012	Unemployed
Bedessem, Jill E	Fall 2011	Trec, Inc.
Bigelow, Adam J.	Fall 2011	MSU Graduate School
Bilant, Kevin D. L.	Spring 2012	Billmayer & Hafferman, Inc.
Bower, Samuel W.	Spring 2012	Sanderson Stewart

Bouhanik, Abdelkader	Spring 2012	Unknown
Boyd, Kyle S.	Spring 2012	Baker Concrete Company
Brooks, William A.	Fall 2011	Michael Baker, Jr
Crutcher, Joshua A.	Fall 2011	Unknown
Dunkelberger, Douglas	Spring 2012	WWC Engineering
Egger, Christina R.	Spring 2012	Herrera Environmental Consultants
Eljdid, Otmane	Spring 2012	MSU Graduate School
Forrest, Devon N.	Summer 2011	MSU Graduate School
Fox, Gary D.	Spring 2012	Allied Engineering
Gossack, Amanda V.	Spring 2012	Saunders Construction
Gray, Joshua Y.	Spring 2012	Unknown
Guinn, Victor L.	Fall 2011	U.S. Air Force
Henderson, Samuel F.	Fall 2011	Kiewit
Hessler, Tyler J.	Fall 2011	MSU Graduate Student
Jambor, Wade M.	Spring 2012	Unknown
Johnson, Camille E. V.	Fall 2011	Thomas, Dean & Hoskins
Johnson, Chance M.	Spring 2012	Kadramas, Lee & Jackson
Johnson, Sarah A.	Spring 2012	Unknown
Johnson, Troy O.	Spring 2012	Unknown
Kolnik, Paul J.	Spring 2012	Unknown
Kross, Whitney A.	Fall 2011	Kadramas, Lee & Jackson
Laine, Aubrey V.	Fall 2011	MSU Grad School (CE)
Lassila, Brady B.	Fall 2011	MSU Grad School (CE)
Litzenberger, Colton	Spring 2012	LPG, Inc.
Masters, Michael D.	Fall 2011	MSU Grad School (CE)
Olson, Andrew J.	Spring 2012	MSU Grad School (EENV)
Reed, Kelly A.	Fall 2011	Unknown
Ronan, Brian T.	Fall 2011	Unknown
Rutz, Adam J.	Fall 2011	RESPEC Consulting & Services
Savage, Christine N.	Fall 2011	Unknown
Schneidt, Jennifer J.	Spring 2012	MDT
Schroeder, David E.	Fall 2011	MSU Grad School (CE)
Schroeder, Joshua	Fall 2011	Unknown
Schultz, Garrett P.	Fall 2011	Oil Company in Gillette, WY
Short, Megan C.	Spring 2012	Unknown
Stamper, Bob L.	Spring 2012	Kenyon Noble
Torres, Adam J. "AJ"	Spring 2012	Terracon
Waller, Drennan K.	Spring 2012	Western Summit Construction Co.
Ward, Nathan T.	Fall 2011	Kennedy/Jenks Consultants
Whitney, Ryan A.	Spring 2012	Kittelsohn & Associates
Wilson, Ryan G.	Spring 2012	Unknown
Yerger, Miles A.	Fall 2011	MDT

Yoakum, Kevin E	Spring 2012	Mowat Construction
Yonker, Ethan L.	Spring 2012	Unknown
Young, Nathan C.	Fall 2011	Stelling Engineers, Inc.
Yount, Nicole M.	Spring 2012	Unknown

C. Construction Engineering Technology Graduates

<u>Name</u>	<u>Semester Graduated</u>	<u>Company</u>
Armknecht, Cody S.	Fall 2011	Unknown
Askin, Tyler J.	Spring 2012	Barnard Construction
Backer, Konnor J.	Spring 2012	Langlas & Associates
Blanton, Vincent M.	Summer	H & H Earthworks
Brown, Jonathan C.	Fall 2011	Unknown
Carlson, Kurtis B.	Fall 2011	Unknown
Christiaens, Kyle R.	Spring 2012	Unknown
Costle, Steven M.	Spring 2012	Unknown
Doney, Mark D.	Spring 2012	Century Companies
Dormandy, Michael M.	Fall 2011	Unknown
Frackiewicz, Ty J.	Fall 2011	Unknown
Gauer, Brady J.	Fall 2011	Bradford Roof Mgmt
Hacking, Justin C.	Fall 2011	Unknown
Hill, Justin C.	Spring 2012	Sanjel USA
Jacobsen, Benjamin C.	Fall 2011	McCarthy Builders, Inc
Johnson, Kyle K.	Fall 2011	Colorado Structures Inc.
Kaiser, John K.	Fall 2011	Unknown
Lutes, Michael J.	Spring 2012	Baker Concrete Co.
Matthews, Diane M.	Fall 2011	Unknown
Maxted, Micah J.	Spring 2012	Sanderson Stewart
McLaren, Bryce D.	Summer 2011	Unknown
Morgan, William D.	Spring 2012	Kiewit
Morrell, Clayton t.	Spring 2012	Goodfellows Brothers
Nowlan, Brandon E.	Spring 2012	McCarthy Builders, Inc
Paulick, Nathan A.	Spring 2012	Archer Western
Peterson, Ross C.	Spring 2012	Carder Inc.
Phillips, Joshua J.	Fall 2011	Unknown
Pollock, Matthew J.	Fall 2011	Gone Green Curbside Recycling
Quay, Benjamin D.	Spring 2012	Kiewit
Rathbun, Denver R	Fall 2011	Anderson Precast & Supply
Rice, Michael R.	Spring 2012	Morris Land Surveys
Richards, Everly G.	Fall 2011	Richards Ranch
Schlauch, Cory P.	Fall 2011	Blattner Energy
Schwahn, Christopher	Spring 2012	Self-Employed

Shields, Adam J.	Spring 2012	McCarthy Builders, Inc
Shriver, Ryan S.	Fall 2011	Unknown
Small, Colton J.	Spring 2012	DPS Company
Spurlock, Jeffrey P.	Spring 2012	Unknown
Starkel, Kurt C.	Fall 2011	Teton Heritage Builders
Strods, Owen J.	Fall 2011	Barnard Construction
Urdahl, Mitchell K.	Spring 2012	MSU Facilities
Vetsch, Nathaniel J.	Fall 2011	Unknown
Weight, Chance R.	Fall 2011	Archer Western Contractors
Whitby, Derrick F.	Fall 2011	Centennial Timber Frames
Whitworth, Brandon	Fall 2011	MDT
Wombacher, Christopher	Spring 2012	Unemployed
Yperman, Gregory J.	Fall 2011	Kiewit
Zbitnoff, Christopher J.	Fall 2011	Barnard Construction

D. Degrees Granted

B.S.	Civil Engineering	46
B.S.	Civil Engineering - Bio Resources Engineering Option	8
B.S.	Construction Engineering Technology	48
	Masters of Construction Engineering Management	2
M.S.	Civil Engineering	18
M.S.	Environmental Engineering	6
Ph.D.	Engineering - Environmental Option	0
Ph.D.	Engineering - Applied Mechanics Option	1
Ph.D.	Engineering - Civil Engineering Option	0

E. Student Enrollment*

Undergraduate Curriculums

Civil Engineering	311
Civil Engineering – Bio Resources Engineering Option	73
Construction Engineering Technology	211

Graduate Curriculums

Civil Engineering (M.S.)	30
Construction Engineering Management (Master's)	4
Engineering (Ph.D.) – Applied Mechanics Option	2
Engineering (Ph.D.) – Environmental Engineering Option	1
Engineering (Ph.D.) – Civil Engineering Option	2
Engineering (Ph.D.)	0
Environmental Engineering (M.S.)	6

*Enrollment numbers are for the Fall Semester 2011

F. Graduate Degrees

Student (Adviser)	Thesis/ Project	Career Placement
Allen, Christopher R MSENVE (Jones)	Bridger Bowl Wastewater Treatment System	MSU Ph.D Program
Arrowsmith, Jason L MCEM (Knoll)	Using Idaho National Laboratory's Earved Value Management System as a Historical Cost Data Collection System	Langlas & Associates
Bermel, Bethany N. MSCE (Berry)	Feasibility of Reclaimed Asphalt Pavement as Aggregate in Portland Cement Concrete Pavements	MDT Bridge Bureau
Bugni, Steven R. MSENVE (Gerlach)	Controlling & Characterizing Microbally Induced Calcium Carbonotic Precipitation Under Continuous & Pulse Flow Conditions	Unknown
Clark, Liam MCEM (Knoll)	Bridger Steel, Create Lasting Beauty	Goodfellow Bros. Inc
Cullison, Andin D. MSCE (Larsson)	Comparing Spatial Interpolation Techniques for use with the Montana Ground Snow Load Finder	Morrison Maierle
Davis, Heather A. MSENVE (Jones)	Case Study: Net Zero Energy	DEQ
Falk, Dustin L. MSCE (Larsson)	Analysis of Cyclic Plate Loadings Using Superposition of Classical Plate Solutions	MSU-Northern
Fleming, Ian J. MSCE (Berry)	Modeling the Static and Dynamic Response of the CX-100 Blade with Geometrically Exact Beam Theory	Los Alamos Nat. Lab
Flynn, Thomas R. MSENVE (Jones)	Bridger Bowl Recirculating Sand Filter System:2010-11 Ski Season Results	Unknown
Foster, Andrew J. MSCE (Mokwa)	Recycling Montana Highway Traction Sand	Terracon Consultants
Gilbert, Andrew M. MSCE (Berry)	Validation of a Laboratory Method for Accelerated Fatigue Testing of Bridge Deck Panels with a Rolling Wheel Load	Unemployed
Hagel, Adam D. MSCE (Berry)	Optimization of Reclaimed Asphalt Pavement as an Aggregate Replacement in Portland Cement Concrete	Corpus Christi Engr Firm
Ibarra, Diana L. MSENVE (Cunningham)	Review & Synthesis of Engineered Wetland Treatment Systems with Application to Phosphorus Removal	Independent School Foundation (Hong Kong)
Kappes, Lenci R. MSCE (Berry)	Validation of Pile-to-Pile Cap Bridge Connection Design	Grad School MSU (PhD)
Mahurin, Scott W. MSCE (Berry)	Creep Behavior of Rap Concrete	Thomas, Dean & Hoskins
Oldenburger, Tanner A. MSCE (Berry)	Stress Ribbon Pedestrian Bridges: Design & Analysis Methods	Unemployed

Palagi, Kyle MSCE (Larsson)	Strain Rate & Temperature Effects on Marine Clay and the Related Temperature Effects on Geotechnical Testing Equipment	Morrison Maierle
Roefaro, Sommer A. MSCE (Al-Kaisy)	Channelized Right-Turning Lanes: A Review of Practice and An Empirical Study	BLM
Sadaj, Marlene MSCE (Gunnink)	Current Trends in Wind Energy Development	Anderson Engineering
Saterbak, Justin K. MSCE (Larsson)	Creep Behavior of Rap Concrete	Opus Group
Shertzer, Richard H PHDENGR (Adams) Applied Mechanics Opt	Fabric Tensors and Effective Properties of Granular Materials with Applications to Snow	U.S. Air Force
Swanson, Daniel O MSENVE (Stein)	Nitrogen Processes in Constructed Wetlands	Unkown
VanLuchene, Kristopher MSCE (Larsson)	Design of Tensile Fabric Roof Membranes	Morrison Maierle
Walters, David J. MSCE (Adams)	Quantifying Anisotropy from Experimental Testing of Radiation Recrystallized Snow Layers Grad School	Grad School MSU (PhD)
Womack, Jennifer M MSCE (Stein)	Evaluation of the Hydrologic Effects of Stock Ponds on a Prairie Watershed	Allied Engineering

X. Assessment

A. FE Exams

April 20

NCEES
Fundamentals of Engineering Examination
 ABET - Accredited Programs

Currently Enrolled Engineering Subject Matter Report by Major and PM Examination		Institution: Montana State University, Bozeman (Engineering)			
Board Code:	31	School Code:		3103	
Major	Civil	PM Exam		FE - Civil	
	*Institution	National		Carnegie Comparator	
Examinees Taking	30	6,331		1,813	
Examinees Passing	25	4,423		1,309	
Examinees Passing %	83	70		72	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	76	75	3.0	74
Engineering Probability & Statistics	8	45	48	1.7	48
Chemistry	11	66	68	1.9	68
Computers	8	68	71	1.3	71
Ethics & Business Practices	8	83	85	1.2	85
Engineering Economics	10	71	72	2.0	73
Engineering Mechanics (Statics)	8	72	70	1.6	70
Engineering Mechanics (Dynamics)	5	48	43	1.3	42
Strength of Materials	8	63	56	1.7	57
Material Properties	8	48	54	1.4	54
Fluid Mechanics	8	66	62	1.6	63
Electricity & Magnetism	11	49	54	2.2	53
Thermodynamics	8	61	58	1.9	58
PM Subject					
Surveying	7	66	63	1.3	64
Hydraulics & Hydrologic Systems	7	71	56	1.6	57
Soil Mechanics & Foundations	9	70	60	1.8	61
Environmental Engineering	7	63	59	1.3	60
Transportation	7	75	71	1.4	73
Structural Analysis	6	45	42	1.3	42
Structural Design	6	52	50	1.4	50
Construction Management	6	77	68	1.3	70
Materials	5	64	60	1.1	62

* 0 examinees have been removed from this data because they (1) Answered fewer than 10% of the questions or (2) were flagged as a Random Guesser.

** The standard deviation of the above is based on number of questions correct not percentage of questions correct.

*** Indicates schools in your Carnegie classification, see www.carnegiefoundation.org

TERMS AND CONDITIONS OF DATA USE

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April 2012

NCEES
Fundamentals of Engineering Examination
 ABET - Accredited Programs

Currently Enrolled Subject Matter Report by Major and PM Examination	Engineering Technology		Institution: Montana State University, Bozeman (Engineering Technology)		
Board Code: Major	31 Construction		School Code: PM Exam	3102 FE - Civil	
	*Institution	National	Carnegie Comparator		
Examinees Taking	4	20	15		
Examinees Passing	3	6	4		
Examinees Passing %	75	30	27		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
AM Subject					
Mathematics	19	57	52	3.8	49
Engineering Probability & Statistics	8	41	38	1.4	38
Chemistry	11	77	60	2.3	59
Computers	8	75	66	1.4	67
Ethics & Business Practices	8	81	81	1.5	82
Engineering Economics	10	73	69	1.8	72
Engineering Mechanics (Statics)	8	81	58	1.7	60
Engineering Mechanics (Dynamics)	5	40	23	1.2	21
Strength of Materials	8	53	44	1.4	43
Material Properties	8	66	53	1.3	53
Fluid Mechanics	8	53	37	1.4	38
Electricity & Magnetism	11	57	49	1.8	47
Thermodynamics	8	72	61	1.5	60
PM Subject					
Surveying	7	71	59	1.5	60
Hydraulics & Hydrologic Systems	7	54	46	1.1	45
Soil Mechanics & Foundations	9	58	47	1.7	44
Environmental Engineering	7	61	47	1.4	45
Transportation	7	86	62	1.6	66
Structural Analysis	6	42	33	1.1	32
Structural Design	6	50	52	1.3	51
Construction Management	6	87	73	1.1	72
Materials	5	75	63	1.2	63

* 0 examinees have been removed from this data because they (1) Answered fewer than 10% of the questions or (2) were flagged as a Random Guesser.

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April 2012

NCEES
Fundamentals of Engineering Examination
 ABET - Accredited Programs

Currently Enrolled Subject Matter Report by Major and PM Examination	Engineering Technology	Institution: Montana State University, Bozeman (Engineering Technology)
Board Code: Major	31 Construction	School Code: PM Exam
		3102 FE - Other Disciplines

	*Institution	National	Carnegie Comparator
Examinees Taking	1	5	1
Examinees Passing	0	0	0
Examinees Passing %	0	0	0

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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AM Subject

Mathematics	19	63	56	3.0	63
Engineering Probability & Statistics	8	38	43	1.5	38
Chemistry	11	55	58	0.5	55
Computers	8	63	60	1.1	63
Ethics & Business Practices	8	100	90	0.4	100
Engineering Economics	10	70	66	1.1	70
Engineering Mechanics (Statics)	8	25	53	1.3	25
Engineering Mechanics (Dynamics)	5	0	20	1.2	0
Strength of Materials	8	50	43	0.9	50
Material Properties	8	63	48	1.6	63
Fluid Mechanics	8	38	48	1.9	38
Electricity & Magnetism	11	36	40	1.7	36
Thermodynamics	8	50	43	1.3	50

PM Subject

Advanced Engineering Mathematics	6	33	43	0.9	33
Engineering Probability & Statistics PM	5	100	64	1.5	100
Biology	3	67	53	0.9	67
Engineering Economics PM	6	67	57	0.9	67
Application of Engineering Mechanics	8	63	60	1.3	63
Engineering of Materials	7	57	57	1.6	57
Fluids	9	33	33	1.6	33
Electricity & Magnetism PM	7	71	40	1.5	71
Thermodynamics & Heat Transfer	9	22	27	0.5	22

* 0 examinees have been removed from this data because they (1) Answered fewer than 10% of the questions or (2) were flagged as a Random Guesser.

** The standard deviation of the above is based on number of questions correct not percentage of questions correct.

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B. CQE Exam

AIC - Constructor Certification Commission

National School Report
(Graduating Seniors)

CQE Level 1 - Construction Fundamentals - March 2012

		National Candidates							
Number of Candidates Tested:		1271							
Number of Candidates Passed:		737							
Number of Candidates Failed:		534							
Score Statistics		National Average	Max Possible	Passing Score	Average Score Percentage Comparison				
Total Score		National Average	Max Possible	Passing Score	0%	25%	50%	75%	100%
Average Total Score		210.59	300	210					
Highest Total Score		274							
Lowest Total Score		55							
Area Scores (Averages)		National Average	Max Possible	Min Acceptable					
Communication Skills		10.62 **	30	21					
Engineering Concepts		10.25	39	20					
Management Concepts		15.89	36	25					
Materials, Methods, and Project Modeling and Visualization		21.42 **	32	22					
Bidding and Estimating		19.85 **	43	30					
Budgeting, Costs, and Cost Control		19.31	27	19					
Planning, Scheduling, and Schedule Control		34.25	47	39					
Construction Safety		13.05	18	13					
Construction Geomatics		5.02	7	5					
Project Administration		20.95 **	33	22					

** Indicates areas of weakness

XI. Department News

A. New Master's Degree Program

Civil Engineering, one of many departments has paired with Montana State University to offer a distance education professional master's degree; The Professional Master of Science and Engineering Management (PMSEM). The 30 credit graduate degree currently offers a fully online Construction Engineering Management Track and a blended Student/advisor - designed track based on student's educational needs and interests. There are also several graduate certificate options (12 credits each) available for those students not interested in a traditional MS degree.

B. Department Receives Recognition from ASCE

MSU was named the winner of the prestigious C. Peter Magrath University Community Engagement Award by the Association of Public and Land-grant Universities, beating out some of the largest universities in the nation. Montana State was recognized for the contributions its students have made in bringing clean water to a region in Kenya through the work of the Engineers Without Borders. EWB, closely associated with Civil Engineering at MSU has received numerous recognitions for its efforts, including the EWB-USA Premiere Chapter Award and the Community Mediation Peacekeeper Award.

Earlier this fall, EWB at MSU also was selected as one of four regional winners of the 2011 Outreach Scholarship/W.K. Kellogg Foundation Engagement Award. The award was given by the APLU at the 12th Annual National Outreach Scholarship Conference in East Lansing, Mich., and was accompanied by a \$5,000 prize. EWB at MSU was one of 15 MSU projects that helped the university earn the Carnegie Engagement Classification in January.

C. Student Success at Construction Competition

For the fifth time in 10 years MSU's College of Engineering is home to the first-place trophy for its student's hands-on ability to estimate a multi-million dollar project and produce a real-world bid in the heavy civil engineering category of the Associated Schools of Construction, held in Reno in February. Civil Engineering now holds the most wins in the past decade for any school in regions 6 and 7 (the Rockies and the Pacific Coast). MSU also had a third-place finish and an honorable mention with its teams in the commercial and marine-construction categories, respectively. Dave Woods, Executive Director of the Beavers (a national organization of heavy civil contractors, presented the construction engineering team with a check for \$76,500. Dean Peterson said \$12,500 of that is scholarship money for the team, with the remaining \$64,000 to be added to the Beavers MSU Scholarship Endowment.

D. Facilities Featured on Discovery Channel Canada

The Subzero Science and Engineering Research Facility was featured Feb. 22 on Discovery Channel Canada. The "Daily Planet" program showed civil engineering professor Ed Adams and David Walters of Wixom, Mich., a master's degree student in civil engineering, working in MSU's cold lab to simulate conditions that contribute to avalanches. It's difficult to determine how a specific change in the weather affects the snow in a specific way, but the researchers build snow crystals and "layer cakes" of snow in the lab to help them find out. They also adjust humidity, temperature and other conditions to see how those changes affect the snow. The Daily Planet is a one-hour daily science show that's a mix of documentaries and features.