





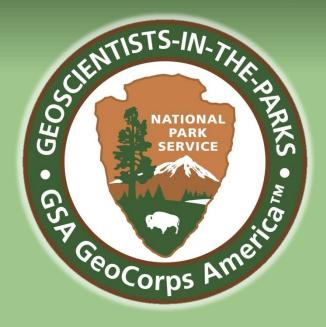


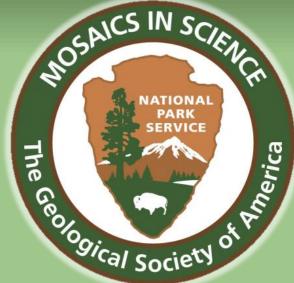
Background

Results

Successful Projects

Program Background







NATIONAL PARK SERVICE

GeoCorps/Geoscients-in-the-Parks

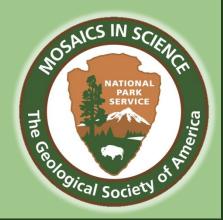
- Offers short-term (12-week) paid geoscience positions at National Parks, Forests and BLM lands
- Stipend varies, but generally ~ \$3,000
- Housing paid by host park
- Also offer Guest Scientist positions
- Classified as volunteers by parks
- Extremely competitive program





Mosaics in Science

- Program designed to increase diversity among those who seek STEM careers within the National Park Service
- Stipend varies, but generally \$4,000
- Housing paid by host park
- Career workshop in DC included
- Classified as volunteers by parks
- Extremely competitive program





Geoscience Teachers-in-Parks

- Program developed by the National Association of Geoscience Teachers (NAGT)
- Offers geoscience teachers 8-week paid internships in parks (Stipend ~ \$3,000)
- Initially started at Mammoth Caves, offered at Mount Rainier since 2011
- Classified as volunteers by parks
- Housing paid by host park









Divisions & Responsibilities

Natural & Cultural Resources

- Work with park and outside researchers assisting with studies on landscape response to climate change
- Assist with research on alpine lakes and other aquatic habitat
- Document floods, debris flows, rock falls, and other geologic events as they occur

Interpretation

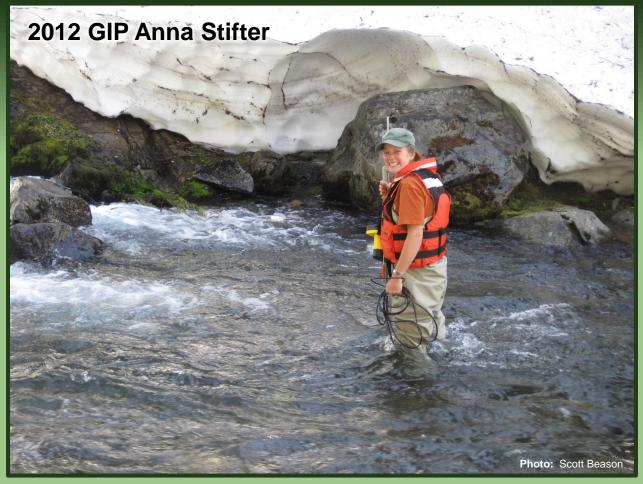
Divisions & Responsibilities

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Interpretation

- Staff front-line visitor centers at Longmire, Paradise, Sunrise, and Ohanapecosh
- Offer ranger-led interpretive hikes and programs
- Offer illustrated evening programs
- Offer Junior Ranger programs



GeoCorps and Geoscience Teacher Internships

RESULTS AT MORA

Mount Rainier National Park



GIP/GTIP/TRT Numbers at MORA

Year	NCR GIP	NCR GTIP	INTERP GIP	INTERP TRT	TOTAL
1998	-	-	1	-	1
1999	-	-	1	-	1
2000	-	-	3	-	3
2001	-	-	1	-	1
2002	-	-	3	-	3
2003	-	-	2	-	2
2004	-	-	3	-	3
2005	1	-	2	-	3
2006	1	-	1		2
2007	-	-	2	-	2
2008	2	-	2	-	4
2009	1	-	2	3	6
2010	2	-	3	7	12
2011	2	-	5	2	9
2012	2	3	4	1	10
2013	2	2	4	1	9
2014	4	2	4	4	14
TOTAL	16	7	43	18	85

Key:

NCR

Natural and Cultural Resources Division

INTERP

Interpretation Division

GIP

Geologist-in-Park

GTIP

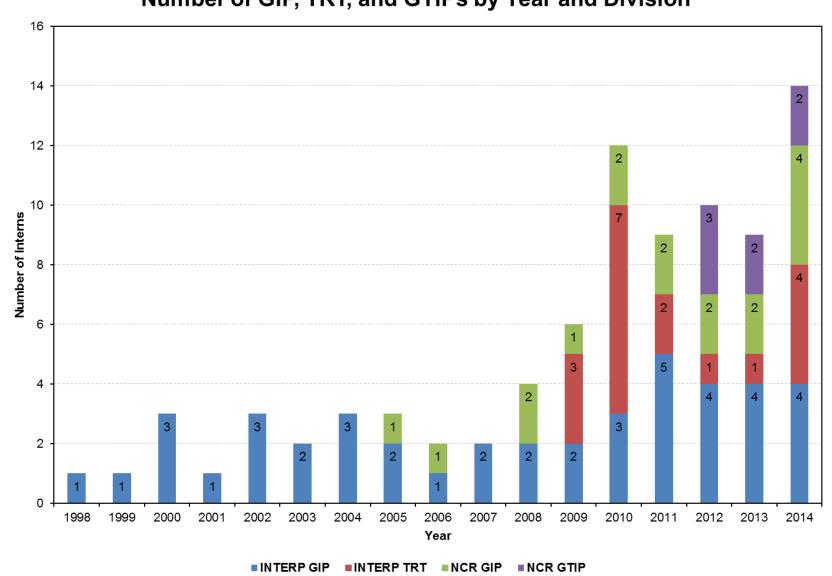
Geoscience-Teacher-In-Park

TRT

Teacher-Ranger-Teacher

Data as of October 2014

Number of GIP, TRT, and GTIPs by Year and Division



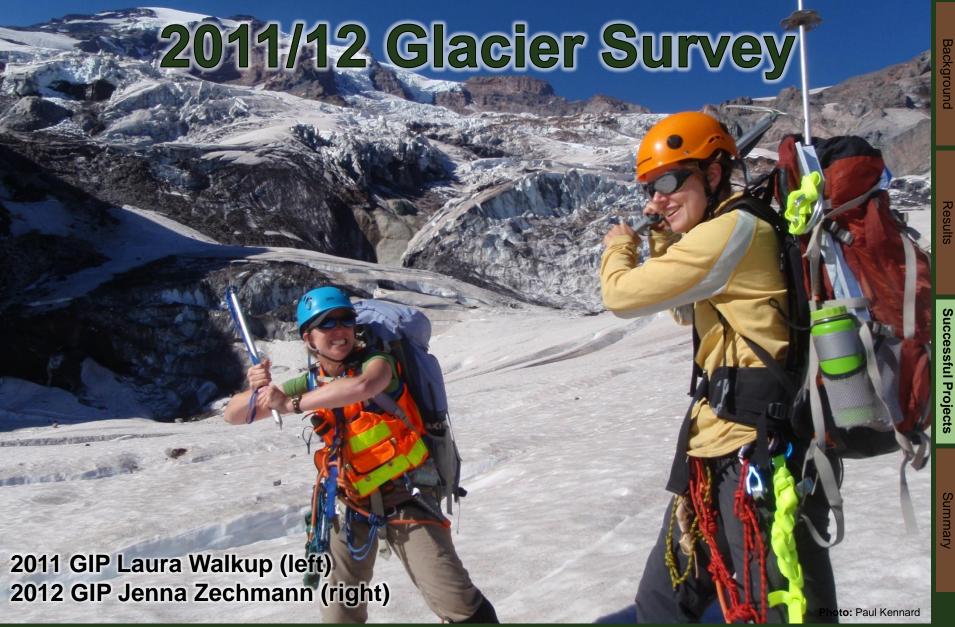




Recent successful geology projects at Mount Rainier

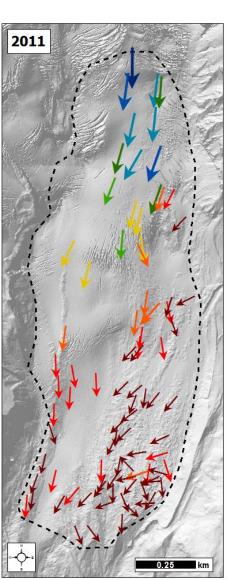
SUCCESSFUL STORIES

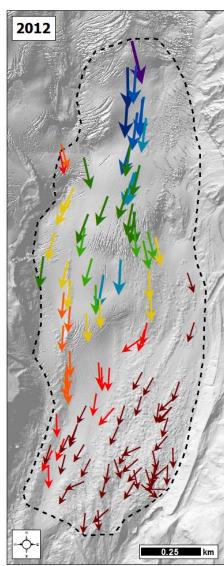
Mount Rainier National Park

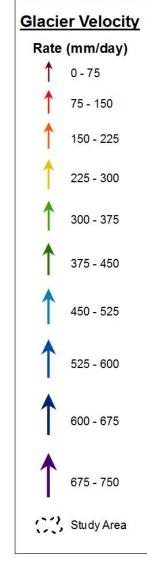




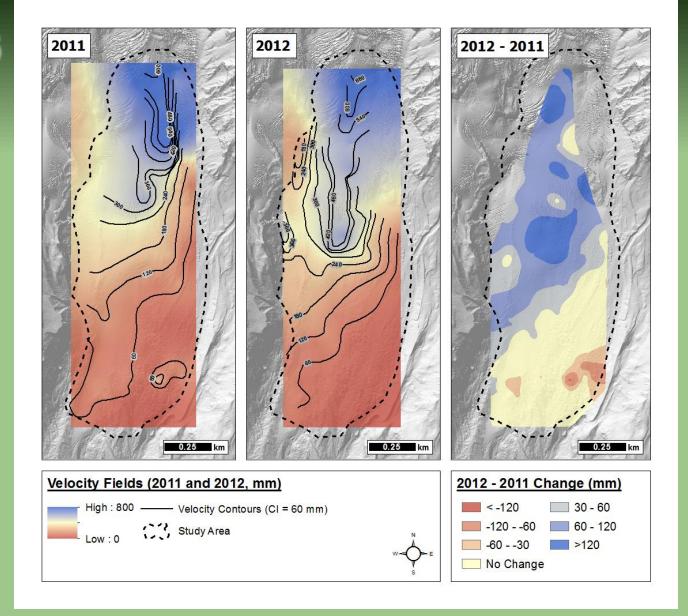
Results







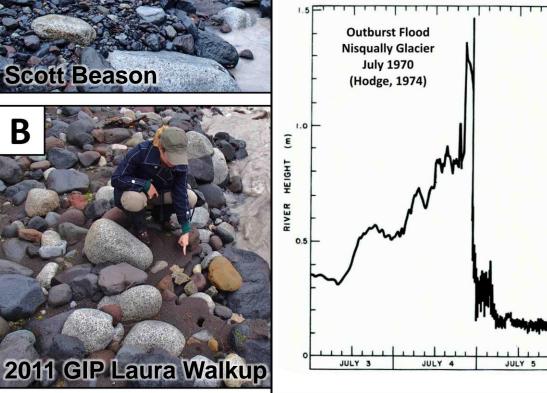


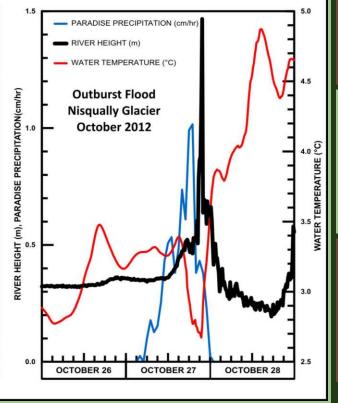




Outburst Flood

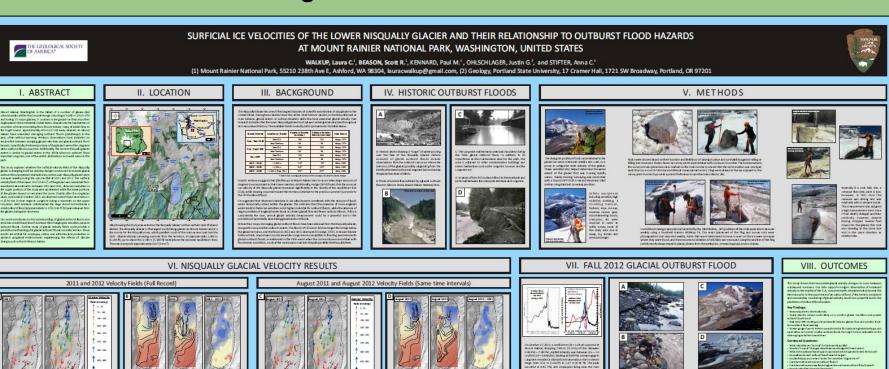
October 27, 2012 Approx. 1 m rise in stream stage





Products

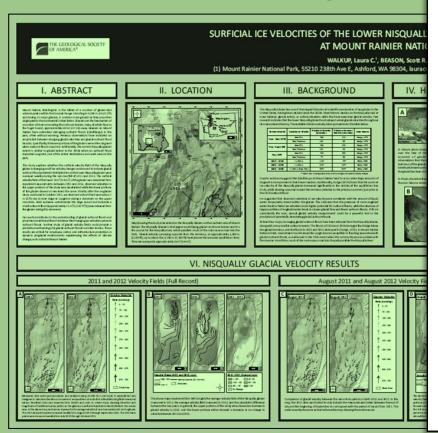
Poster at 2013 GSA Meeting:



Products

Forthcoming NRDS Paper:

Poster at 2013 GSA Meeting:



National Park Service
U.S. Department of the interior

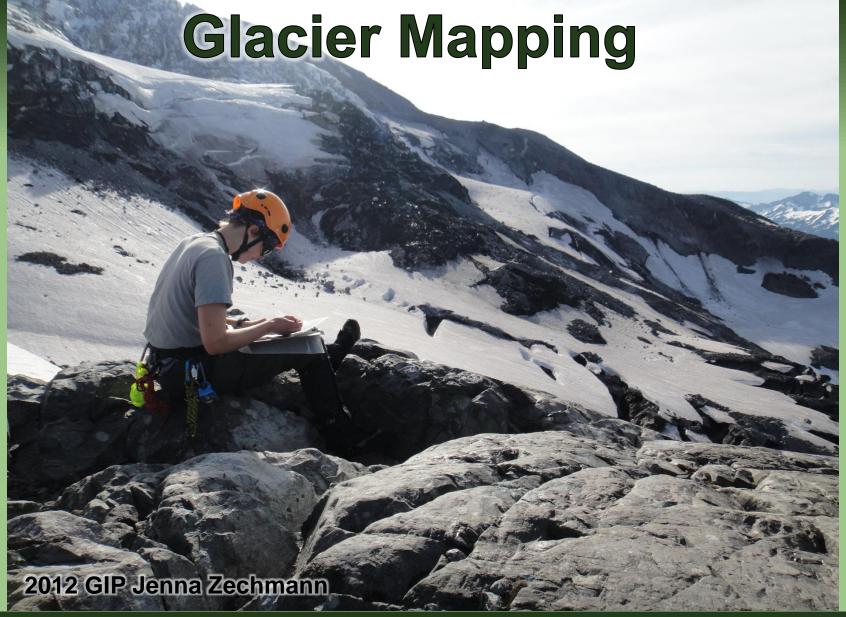
Vatural Resource Stewardship and Science



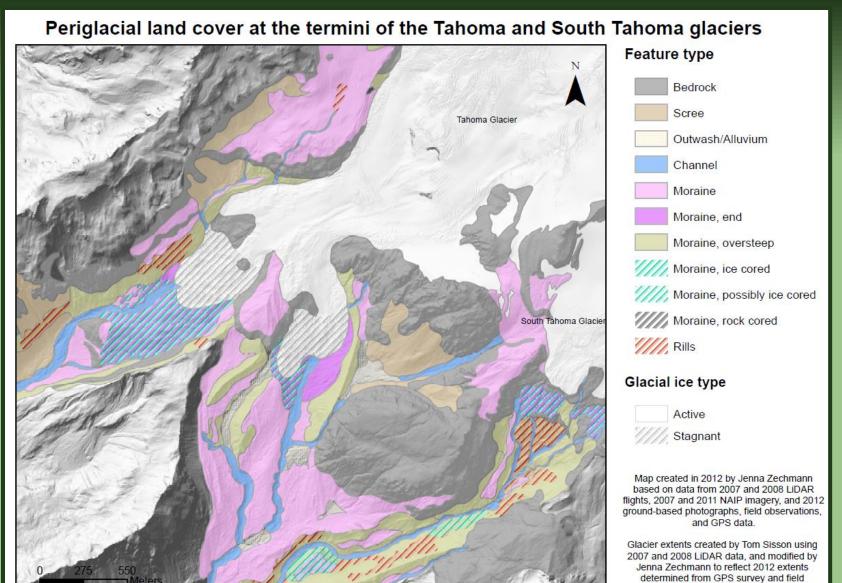
Surficial Velocities of the Nisqually Glacier, Mount Rainier National Park, 2011 and 2012

Natural Resource Data Series NPS/XXXX/NRDS—20XX/XXX





Mount Rainier National Park



observations.





Aggradation Study Products

Natural Resource Technical Report: (Will be published this week!)

Beason, S.R., Walkup, L.C., and P.M. Kennard: Aggradation of glaciallysourced braided rivers at Mount Rainier National Park, Washington: Summary report for 1997-2012: Natural Resource Technical Report NPS/MORA/NRTR— 2014/910, 104p. National Park Service U.S. Department of the Interio

Natural Resource Stewardship and Science



Aggradation of glacially-sourced braided rivers at Mount Rainier National Park, Washington

Summary Report for 1997-2012

Natural Resource Technical Report NPS/MORA/NRTR—2014/910



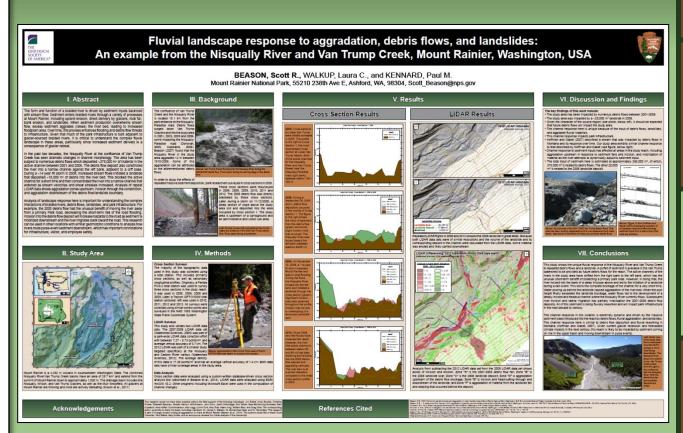


Fluvial landscape response to aggradation, debris flows, and landslides: An example from the **Nisqually River** and Van Trump Creek, Mount Rainier, Washington,

BEASON, Scott, et al.

USA

On Right Now!



Poster 124-11 (Booth #138)



Discharge Measurements



Mount Rainier National Park



Discharge Measurement Products

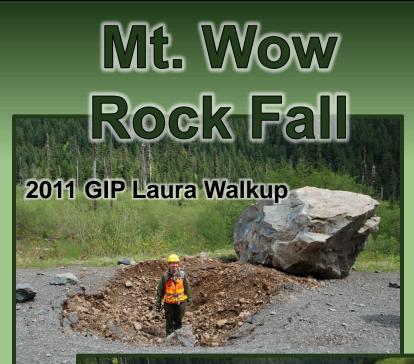








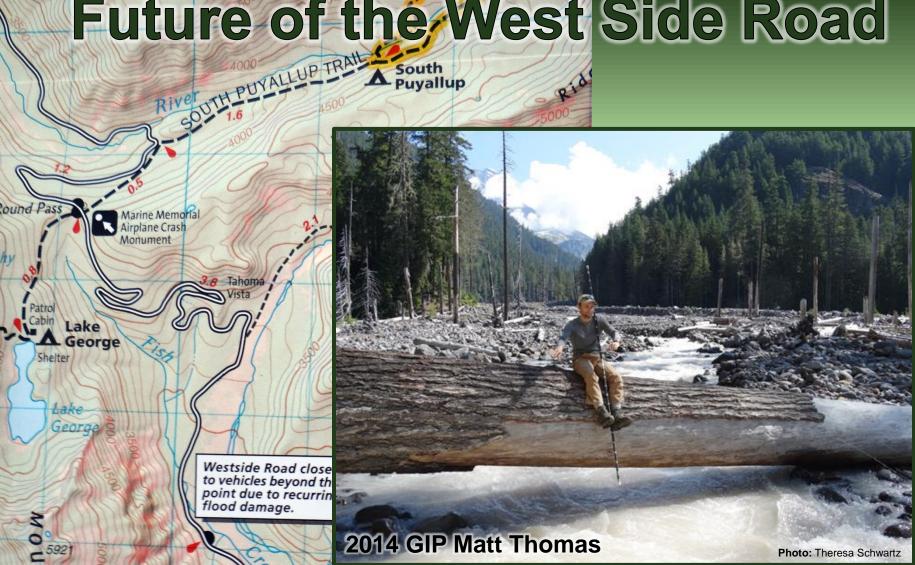






Mount Rainier National Park

Future of the West Side Road





National Park Service
U.S. Department of the Interior

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Pacific West Region – Mount Rainier National Park

Leveraging anecdotal, topographic, and hydrologic insights to identify challenges in managing the Westside Road, Mount Rainier National Park, Washington State

Intern

Matthew A. Thomas, GeoCorps / GIP - Geomorphology Technician (#2014049)

Supervisor

Paul Kennard, Regional Geomorphologist

Project Timeline

7.14.2014 to 10.3.2014

Mt. Rainier

Presented to Mount Rainier Management Team

Mt. Wow









Stick around for more!

Monday, October 20, 2014

Monitoring mountain lakes at Mount Rainier **National Park and the** North Coast and **Cascades Network**

GOODMAN, Arianna, et al.

2014 Geological Society of America Annual Meeting

I speak geology: A summer as an interpretive specialist at Mount Rainier **National Park**

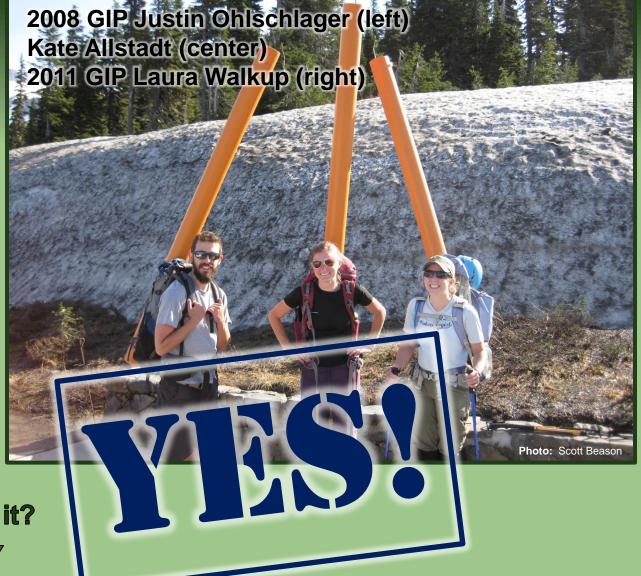
GROSS, Benjamin M.

Photo: Scott Beason



Is the program worth it?

SUMMARY



Is the program worth it?

SUMMARY



Advantages

- Cost effective for all agencies
- Excellent experience for interns
- Easy to post a position
- The park gets highly motivated and eager-tolearn interns
- Able to select the best match for the job
- Interns contribute to scientific research

Background

Results

Disadvantages

- Very few disadvantages!
- Short time frame (8-12 weeks vs. 26 weeks for seasonal employees) – Mosaics and GTIPs can work longer (up to 1 year)
- Wide range of skills (undergrad through postdoc) – Not completely a bad thing!



Acknowledgements

- Lisa Norby (NPS GRD), Matt Dawson (GSA), the National Association of Geoscience Teachers, and Mount Rainier National Park for supporting these programs
- NCR GIPs: Anna Stifter, Arianna Goodman, Bree McClenning Gonzalez, Corrie Floyd, Elizabeth Beaulieu, Erin Tainier, Holly Brunkal, Jenna Zechmann, John Beyeler, John Russell, Justin Ohlschlager, Matt Thomas, Rebecca Rossi, and Sabrina Belknap.
- NCR GTIPs: Adam King, Amy Rutz, Erol Kavountzis, Gayle Eisner, Greg Stott, and William Baur.
- Interpretation GIPs: Alisa Scott, Amishi Kumar, Andrew Walters, Aurora Pinkney-Drobnis, Becca Walker, Bob Lillie, Brian Dempsey, Brian McDonald, Brittina Argow, Carrie Brugger, Charles Trexler, Chelsea Neill, Christina Carr, Christina Gooch, Colleen Riley, Conor McDowell, Dana Smith, Delenora Grey, Elena Sipe, Eric McPherren, Erin Smith, Heather Parker, Hillary Sletten, Jason Hanson, Jeff Gross, Justin Hynicka, Karinne Knutsen, Karrie Karpinksi, Kristen Borseth, Lauren Schaefer, Lindsey Doermann, Louis Bodin, Maaria Thompson, Mariah Doll, Marissa Reis, Matt Swanson, Megan Killeen, Nicole Knepprath, Nicole Rutters, Nora-Rose Hencir, Rachel Landmann, and Tammi Corchero.
- Interpretation TRTs: Denise Thompson, Don Borst, Everett Hill, Jeffrey Johnson, Kevin Olson, Kirsten Anderson, Laura Barnhardt, Loni Cantu, Matthew Phillipy, Maureen McLean, Nicole Uhre, Paul Tankovich, Peter Conrick, Sarah Illingworth, Scott McLean, Shonna Seigers, and Susan O'Leary.
- Many, many more!



