

INSIDE THIS ISSUE



4



4



52

FEATURES

AIPG Annual Meeting Sponsors and Exhibitors	3
AIPG Annual Meeting Photos	4
Student Issue TPG Order Form	6
AGI/AIPG Summer Interns become 'Policy Wonks' <i>Abigail Seadler</i>	7
AIPG Honors and Awards Program	11
News from the Wisconsin Section	21
Low-Energy Alternatives for Removing Contaminant Plumes in Groundwater <i>Paul F. Hudak</i>	23
2016 Award Nomination Form	39
General Stratigraphy of the Usibelli Coal Mine, Healy, Alaska The Central Alaska-Nenana Coal Province <i>Jean M. Neubeck, CPG-11438</i>	47
Connections and Networking in Unusual Places: Awareness of Sewer Air and Vapor intrusion <i>James A. Jacobs, CPG-7760</i>	51
AIPG Annual Meeting Photos	52
A Unique Metal with a History in Colorado <i>Jim Burnell, CPG-11609</i>	53

View of the outcrop at Usibelli Mine, Healy, AK, containing the minable coal seams interbedded with loosely-cemented sandstone and associated sedimentary lithologies. Photo by Chris Arend, Courtesy of UCM.

AIPG National Executive Committee

PRESIDENT - J. Foster Sawyer, CPG,
SD School of Mines and Technology
O: (605) 394-2462, South Dakota Section
foster.sawyer@sdsmt.edu

PRESIDENT-ELECT - Helen V. Hickman CPG,
Aquatech GeoScience, Inc.
O: (561) 307-2369, Florida Section
hickmanhydro@att.net

PAST PRESIDENT- Raymond W. Talkington CPG,
Geosphere Environmental Management
O: (603) 773-0075, Northeast Section
rtalkington@geospherenh.com

VICE PRESIDENT - J. Todd McFarland, CPG,
AMEC Foster Wheeler
O: (615) 333-0630, Tennessee Section
todd.mcfarland@amecfw.com

SECRETARY - James R. Burnell, CPG,
Mineral Strategies, LLC
O: (303) 278-4521, Colorado Section
minstrat@yahoo.com

TREASURER - R. Douglas Bartlett, CPG,
O: (480) 659-7131, Arizona Section
dbartlett@clearcreekassociates.com

EDITOR - Jean M. Neubeck, CPG,
O: (518) 348-6995, Northeast Section
jneubeck@alphageoscience.com

ADVISORY BOARD REPRESENTATIVES
Christine F. Lilek, CPG,
Wisconsin DNR
O: (920) 387-7898, Wisconsin Section
clilek1@yahoo.com

Keri A. Nutter, CPG,
DOWL HKM
O: (907) 562-2000, Alaska Section
knutter@dowlhkm.com

David G. Pyles, CPG,
KPRG, Inc.
O: (630) 325-1300, Illinois/Indiana Section
DavidP@kprginc.com

Ronald J. Wallace, CPG,
State of Georgia
O: (404) 362-2589, Georgia Section
ronald.wallace@dnr.state.ga.us

NATIONAL HEADQUARTERS

12000 Washington St., Suite 285

Thornton, CO 80241

7:30 AM - 4:30 PM MDT, M-F

(303) 412-6205 • Fax (303) 253-9220

aipg@aipg.org • www.aipg.org

EXECUTIVE DIRECTOR - William J. Siok, CPG - wsiok@aipg.org
ASSISTANT DIRECTOR - Wendy J. Davidson - wjd@aipg.org
PROFESSIONAL SERVICES MGR - Cathy L. Duran - cld@aipg.org
MEMBERSHIP SERVICES MGR - Vickie L. Hill - vlh@aipg.org
OFFICE ASSISTANT - Cristie J. Valero - cjv@aipg.org
ADMINISTRATIVE ASSISTANT - Dorothy K. Combs - dkc@aipg.org
ADMINISTRATIVE ASSISTANT - Ramona J. Scott - rjs@aipg.org

LIFE AND SUPPLEMENTAL INSURANCE

GeoCare Benefits Insurance Plan
Phone: 800-337-3140 or 602-870-4121
<http://www.geocarebenefits.com/>
E-mail: geocarebenefits@agja.com

AUTO AND HOME INSURANCE

Liberty Mutual
Phone: (800) 524-9400-Client #111397
<http://www.libertymutual.com/aipg>

PROFESSIONAL & GENERAL LIABILITY INSURANCE

The Wright Group
Phone (800) 322-9773 (303) 863-7788
<http://www.thewrightgroupinc.com>

ALAMO RENTAL CAR -
(800) 354-2322 - Member #BY-706768

AVIS RENTAL CAR -
(800) 698-5685 - Member AWD #T003300

UPS Savings Program
www.aipg.org or www.savewithups.com/aipg
Use promo code WES462

DEPARTMENTS

5	Section News
22	Student Chapters
27	Editor's Corner
28	Test Your Knowledge
29	President's Message
30	Test Your Knowledge Answers
31	Professional Ethics and Practices
34	Hydrothink
34	Membership Totals
35	Educator's Page
38	In Memory
40	Young Professional's View
41	Student's Voice
42	Student's Voice
44	Professional Services Directory
46	Online Courses

AIPG Publication Policy, October 4, 2010. AIPG encourages submission of articles and editorials for publication in *TPG* on topics related to the science and profession of geology. Submittals shall be of interest to the members of AIPG, other professional geologists, and others interested in the earth sciences. Articles and editorials may be noted as follows at the discretion of the Editor, "The opinions, positions and conclusions presented herein are those of the author and do not necessarily reflect the opinions, positions or conclusions of the American Institute of Professional Geologists." All materials submitted for publication, including author opinions contained therein, shall include accurate and appropriate references. The Editor has the authority to solicit, edit, accept, or reject articles and editorials and other written material for publication. The Executive Committee has the authority if it so chooses to act on any particular case to support or overrule actions of the Editor regarding the solicitation, editing, acceptance, or rejection of any particular article, editorial, or other written material for publication.

American Institute of Professional Geologists (AIPG) is the only national organization that certifies the competence and ethical conduct of geological scientists in all branches of the science. It adheres to the principles of professional responsibility and public service, and is the ombudsman for the geological profession. It was founded in 1963 to promote the profession of geology and to provide certification for geologists to establish a standard of excellence for the profession. Since then, more than 10,000 individuals have demonstrated their commitment to the highest levels of competence and ethical conduct and been certified by AIPG.

The mission of the American Institute of Professional Geologists (AIPG) is to be an effective advocate for the profession of geology and to serve its members through activities and programs that support continuing professional development and promote high standards of ethical conduct.



The Professional Geologist (USPS 590-810 and ISSN 0279-0521) is published quarterly by the American Institute of Professional Geologists, 12000 Washington St., Suite 285, Thornton, CO 80241-3134. Periodicals Postage Paid at Denver, Colorado and additional mailing offices.

POSTMASTER: Send address changes to The Professional Geologist, AIPG, 12000 Washington St., Suite 285, Thornton, CO 80241. Subscriptions for all Members and Adjuncts in good standing are included in annual membership dues. Subscription prices are \$20.00 a year for Members' additional subscriptions and \$30.00 a year for non-members for 4 issues (for postage outside of the U.S. add \$10.00). Single copy price is \$5.00 for Members and \$8.00 for non-members. Claims for nonreceipt or for damaged copies are honored for three months.

Entire contents copyright 2015 by The Professional Geologist. Original material may be reprinted with permission. Deadline for articles and advertisements is six weeks preceding publication. Advertising rates available upon request. Opinions and views expressed by the authors are their own and do not necessarily reflect those of the American Institute of Professional Geologists, its staff, or its advertisers.

Printed in U.S.A. by Modern Litho-Print Company in Jefferson City, Missouri.

For AIPG news and activities go to www.aipg.org.