Pennsylvania Council of Professional Geologists
2021 Annual Meeting

Barbara Dunst, P.G., CPG
PCPG President
April 14, 2021
Virtual Event

New Board Members
Vicki Pitman, P.G.,
EA Engineering, Science and Technology

Jason Floyd, P.G.,
Mountain Research, LLC

Re-Elected Board Member
Tom Wagner, P.G.,
Cabot Oil & Gas
Government Affairs Chair
...and the rest of the Board of Directors

Vince Carbone, P.G.
HDR Engineering
Outreach Services Chair

David Crostley, P.G.
HDR Engineering

Tiffani Doerr, P.G.
Evergreen Resources
Management Operations
President Elect,
Communications Co-Chair

Kurt Friehauf, Ph.D., P.G.
Kutztown University
Photo Committee

Emily Glick, P.G.
Tetra Tech
Photo Committee

Tom Jordon, Ph.D., P.G.
Key Environmental

Chris Kotch, P.G.
Barry Isett & Assoc.

Jackie Reichl, P.G.
Tech Committee Chair

Greg Rosenzweig, P.G.
GES-Groundwater &
Environmental Services
Communications Co-Chair

Steve Zbor, P.G.
Core Environmental

Rounding Things Out

Dan Billman, P.G.
Billman Geologic
Consultants
Education Chair

Russ Losco, P.G., C.P.S.S.
Lanchester Soil
Consultants
Podcast Developer

Martin Helmke, Ph.D., P.G.
West Chester Univ.
Past President
2020 Goals Achieve Small Wins and Gain Momentum

- New Website and Online Community – Essential
  - Digital Networking – Need Individual & Corporate Profiles Updated
  - Engaging Content
  - Social Media Presence
- Developing New Continuing Education & Events
  - New Courses being Developed
  - Locations across the state
  - Webinars & Podcasts developed after New Website in Place
- Looking to the Future Workforce – Digital Reality
  - Mentoring
  - Essential/Refresher Skills for New/Experienced Geologist
  - Engaging Corporate Partners for Input to Skills Needed in Applied Geology
- Increasing Public Perception
  - Website Content
  - Social Media
  - High School Curricula

2020 BAD NEWS...

...and 2020 GOOD NEWS...
2020 Action Plan

► Develop New Continuing Education Courses, locations, webinars and podcasts

<table>
<thead>
<tr>
<th>2020 Education Event</th>
<th>Date 2020</th>
<th>Location</th>
<th>Experience Level</th>
<th>Member Participants</th>
<th>Non-Member Participants</th>
<th>Participant Summary</th>
<th>PDH Hrs</th>
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<td>February</td>
<td>Harrisburg</td>
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<td>Hydrostructural Geology</td>
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<td>Virtual</td>
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<td>Intro to Soils</td>
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<td>Recent Advancements in Drone Technologies</td>
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<td>Intro to Geophysical Well Logging &amp; Imaging</td>
<td>December</td>
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<td>4-Hr Short Course</td>
<td>Interm, To Adv.</td>
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2020 All Education Events Summary

|                        |           |                   |                  | 760                 | 290                     | 1055                | 43.5    |

2021 Education Summary

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<tr>
<th>2021 Virtual Event</th>
<th>Date</th>
<th>Location</th>
<th>Experience Level</th>
<th>Members Participants</th>
<th>Non-Members Participants</th>
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<td>Big Run Watershed Restoration</td>
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<td>Water Law Meet Geology</td>
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<td>Landslide Risk Assessment</td>
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<td>Career Success Students &amp; Young Professionals</td>
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<td>1.5 Hr. Q&amp;A Panel</td>
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<td>Sampling to Maximize Lab Data Value</td>
<td>4/27/2021</td>
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<td>Interm, To Adv.</td>
<td>15</td>
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PG Review Course Webinar Series

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<th>2021 PG Review Course Webinar Series</th>
<th>Date</th>
<th>Location</th>
<th>Experience Level</th>
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<td>Feb. 1-17</td>
<td>2.5 Hr Short Course</td>
<td>Basic</td>
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<td>PG Review Course Part 1 (General, Field, Geomorph and Geosnoology, Exploration Geophysics, Well Logging)</td>
<td>Feb. 1</td>
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<td>2.5 Hr Short Course</td>
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<td>PG Review Course Part 3 (Paleontology and Structure/Tectonics)</td>
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<td>2.5 Hr Short Course</td>
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<td>PG Review Course Part 4 (Hydrogeology and Geochemistry)</td>
<td>Feb. 10</td>
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<td>PG Review Course Part 5 (Engineering Geology)</td>
<td>Feb. 15</td>
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<td>PG Review Course Part 6 (Economic Geology: Mining, Petroleum and Coal)</td>
<td>Feb. 17</td>
<td>2.5 Hr Short Course</td>
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<td>May 2021</td>
<td>Webinar</td>
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<td>31</td>
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2021 All Education Webinars Summary

|                        |           |                   |                  | 495                 | 142                     | 637                 | 29.5    |

► Virtual Education, Maximizing Well Efficiencies(May), Lake Arthur Dam Siting(June), Mars Sample Science(June), Water Well Standards, Act 2/PA One Clean-Up Program, Newark Basin Case Study, Redo the Invisible Gorilla-Managing Hydro Risk(~Sept), and the PG Review Course(~Aug). Soon will be offering webinar replays.

► In-Person Education Mock Field Investigation(2 day), Annual Meeting Part 2(?)

4/13/2021
2020-2021 Podcasts

- Rickets Glen State Park
- Earth as a Storyteller – Seismic Wave Sounds
- Biking the Allegheny Passage - Pittsburgh to DC
- Soils
- Field Safety
- Planned/In Development
  - Applied Geology Curriculum – YSU
  - Interviews with well known geologists
  - Interviews with geologists about specialties

2020 2021 Action Plan

- New Website and Online Community with Digital Networking, Engaging Content, Social Media Presence

- New fresh updated look with full graphic photo banners
- The site is easy to navigate
- New and updated content
- Home page features scrolling photos from contest winners, latest news and upcoming events.
2020-2021 Digital Networking

► Shippensburg U. – On-Campus Visit: A Career as a PG
► Virtual Campus Visits to California U., Youngstown State U. and Millersville U. + Interview Skills
► Lafayette College Virtual Career Fair
► Upcoming Career Success Pathways for Students and Young Professionals, April 20, 12:00 pm – 1:30 pm
  • Virtual panel discussion and Q&A
► Looking to Develop Online Forums for Discussion of Geologic Topics through the Website or Other App
► Follow PCPG on Facebook and LinkedIn

2020 Action Plan

► Increasing Public Perception through Website Content, Social Media and High School Curricula
  • What Does a Professional Geologist Do Series – 6 completed, 4 in draft
  • Student Pathfinder Spreadsheet
  • New Science Standards for K-12 education - comments
2021 Action Plan - Targeted Momentum

► New Website and Online Community – Essential
  • Continue New Updated and Engaging Content
  • Digital Networking – Need Individual & Corporate Profiles Updated

► Developing New Continuing Education & Podcasts – Digital Reality
  • Online Webinars, various lengths and experience Level, Here to Stay
  • In Person Education (fall?) with Locations Across the State
  • Future – Balance In-Person & Virtual Learning
  • New Podcasts - Contact PCPG with Ideas

2021 Action Plan - Targeted Momentum

► Looking to the Future Workforce – Digital Reality
  ► Essential/Refresher Skills for New/Experienced Geologists
    • 6 Part Virtual PG Review Course, individual sessions available ~ August
  ► Applied Geology Skills
    • Mock 2 Day Field Investigation under development
    • More to be developed with corporate input/partners
  ► Mentoring/Networking to Develop the Workforce
    • Student and Young Professional Virtual Session next Tuesday, 4/20/21
    • Research and Develop Online Forum(s)
    • Continue Student Outreach (Virtual & On-Campus) to Highlight Geology Careers
    • In-person Continental Drifters Events – casual Local Networking

► Increasing Public Perception
  • Continue Website Content
  • Increase Social Media Content
  • High School Curricula Standards
2021 A Bright Year for PCPG
PCPG’s Associate Members

Elk Environmental
Contact: Jesty Newswanger
Phone: (610) 372-4760

Suburban Testing Labs
Contact: John Weisman
Phone: (610) 207-8154
Career Success Pathways for Students and Young Professionals

April 20, 2021 12:00 PM – 1:30 PM

► Panelists
  ► Kristen M Carter, P.G., C.P.G. Assistant State Geologist (PA Geological Survey)
  ► David Crostley, P.G. Senior Geologist (HDR Engineering, Inc.)
  ► Emily Glick, P.G. Senior Hydrogeologist (Tetra Tech, Inc.)
  ► Tom Wagner, P.G., C.P.G., Geologist (Cabot Oil & Gas)

► Moderator
  ► Vince Carbone, P.G. Professional Associate (HDR Engineering, Inc.)

► Diverse Range of Geoscience Backgrounds and Experience Levels
  ► Oil/Gas
  ► Environmental
  ► Engineering geology
  ► Brownfields
  ► Groundwater Remediation
  ► Subsurface Stratigraphy
  ► Sinkhole Remediation
  ► Due Diligence
  ► Hazardous Materials
  ► Regulatory

► PCPG will Start the Conversation
  ► What will help me get a good geoscience job?
  ► What soft skills will help improve my career?
  ► Should I get a graduate degree now or get a job first?

► Questions from Participants Highly Encouraged and Expected / Register at PCPG.org