

HAGER-RICHTER GEOSCIENCE, INC.

T (603) 893-9944 / F (603) 893-8313
8 Industrial Way - D10
Salem, New Hampshire 03079
www.hager-richter.com

T (732) 661-0555 / F (732) 661-0123
846 Main Street
Fords, New Jersey 08863
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H-R CELEBRATES 25 YEARS OF GEOPHYSICS IN 2009!



Midnight in Manhattan – Borehole Geophysical Logging

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They say time flies when you are having fun. H-R must be having a lot of fun because time certainly has flown by.

In 2009, H-R will celebrate **25 years** (yes – a **quarter century!**) of providing surface and borehole geophysical services to the engineering, environmental, water resource, and cultural resource communities. We plan to spend the year celebrating this milestone in several ways, and we hope you will join us as we do. Watch our website and your mailbox for updates and news of events as we look ahead to our next quarter century of service.

Better yet – be a part of the celebration.
Call us!

Message from the President

I did not know when starting H-R in 1984 that it would be here 25 years later. I certainly did not know then that H-R would become a premier geophysical consulting firm in 2009 with a superb staff in two offices, a matchless reputation for technical quality and integrity, and congenial working relationships with some of the best clients in the world.

I probably should not be too surprised. Somehow we found our niche providing leading edge surface and borehole

geophysical services to sophisticated clients.

We do not promise more than we can deliver. We refuse to let our professional standards slip, even if we lose money on a project. We consider our ethical standards as important as our technical standards. Our basic business principles have taken us a long way.

Of course, I am proud of H-R's 25th anniversary. I am proud of our staff and our body of work. I thank all our clients who helped us along the way. But now is the time to look forward. With the enormous challenges facing our country, you have our assurance that H-R will be there – ready, willing, and more than able to provide the surface and borehole geophysical services that will support your needs, your clients, and to help make this world a better place.

*Make H-R a part of your world, too.
Call us!*

*Cordially,
Dorothy Richter*



Mid-day in the Caribbean – Earth Resistivity Imaging



Noon in the North – Compressional & Shear Wave Velocity Seismic Surveys for Wind Farms

excavation activities.

The list could go on, but I think you see the point. The use of H-R's surface and borehole geophysical investigations can be a powerful tool to characterize subsurface conditions rapidly and economically. Do the *smart* thing for your clients. **Call us!**

Consistency is a Virtue

Gene Simmons, our VP and Professor Emeritus of Geophysics at MIT, is frustratingly famous within H-R for reminding us that "consistency is a virtue." One thing clients can count on when they call H-R is that we have a stable stable of stellar staff available to provide experienced professionals for their geophysical projects. Ah, consistency.

We've made a few changes and are happy to acknowledge some professional milestones since our last newsletter. **José Carlos Cambero**, Senior Geophysicist, is now Manager of H-R's New York/New Jersey Regional Office in Fords, New Jersey. José uses his global experience to manage some of our more complex projects. **Alexis Martinez**, who has been with H-R since 2002, is now Senior Geophysicist. Alexis is known for his patience and perseverance that gets the job done right. **Rob Garfield**, who has also been with H-R since 2002, is now Senior Borehole Geophysicist. Anyone who has worked with H-R on a borehole logging project knows that Rob is 'The Man' for dedication to getting the best borehole geophysical data and interpretation.

Steve Grant, Senior Geophysicist, celebrates **10 years** with H-R in 2009! He joins **Jeff Reid** (22 years), **Lyn Mercer** (13+ years), and **Bill Desmarais** (13+ years) as member in our >10 years club. Steve is one of our seismic stalwarts. Ah, consistency. It is indeed a virtue. **Call us!**

Fresh Faces

If I got our newsletters out on a more timely basis, we would not have so many fairly fresh faces to introduce:

Vanja Dezelic, Ph.D., Geophysicist. Vanja is a native of Croatia. His talent as a competitive swimmer brought him to the US, first to Fargo, North Dakota as an exchange student in high school, and then on an athletic scholarship to the University of Missouri at Rolla, where he earned a BS in Geology & Geophysics, and MS and PhD degrees in Mining Engineering. Vanja's graduate theses applied surface geophysical methods to mining engineering problems. Joining H-R in the latter half of 2007, Vanja is now swimming in H-R's project pool, taking project management responsibility and working closely with clients.

Kenneth Roginski, CAD Technician. Ken's attention to detail in CAD work is natural because of his keen interest in historic preservation. He received a Historic Preservation Certificate from Drew University, and previously worked as a Senior Historic Preservation Specialist for the New Jersey Historic Trust. He also has a B.S. in Management Science and Marketing from Kean University. Ken is so ardent about recycling and minimizing waste that he leads the NJ office and the whole company in those areas.

Nicholas DeCristofaro, Geophysical Technician. Nick just graduated from Ramapo College of New Jersey with a BA in Environmental Studies in 2008. He interned with an environmental organization in New Jersey, which is where we met him. Nick loves surfing and snowboarding, and he is riding with balance and composure wherever H-R's geophysical project waves take him.

Harrison Newman, Geophysical Technician. Harrison received a BA in Sociology and Anthropology, and Political Science from Colgate University in 2008. He was an Archeology Assistant while at Colgate and taught at archeology camps for Onondaga Nation youth in New York. He also participated in field investigations in the Yucatan and at Iroquois sites in upstate New York. Harrison was a track star in High Jump and Triple Jump for Colgate. We've had him jumping into geophysical projects across New York and New Jersey.

It is refreshing to all of us to work with such multi-talented individuals. **Call us!**

H-R & Today's Economy

Everyone is concerned about trimming costs these days. We all hear the same phrases from our clients – do it faster, do it cheaper. But doing things *smartly* is the wisest use of project funds.

The simple fact is that incorporating H-R's geophysical expertise into your projects will ultimately save you and your clients' both time and money. For example:

- H-R's one-day shear wave velocity survey that cost a few thousand dollars to determine the IBC Seismic Site Class saved a building owner more than *twenty times* that amount in unexpected design changes based on a lower site class determination based on a few borings.
- A state agency saved several *tens of thousands* of dollars in drilling and design costs by having H-R determine the depth of bedrock along a highway right-of-way.
- Public agencies saved *hundreds of thousands* of dollars by having H-R determine the depths and orientations of bedrock fractures using high resolution optical and acoustic borehole viewers in place of oriented coring along tunnel alignments.
- Public and private clients have saved *untold costs*, possible injury, and certain litigation by having H-R map subsurface features such as utilities, USTs, and former foundations prior to drilling or

H-R's Services

- **Surface Geophysics –**
 - Seismic Refraction
 - Seismic Reflection
 - Multi-channel Analysis of Surface Waves (MASW)
 - ReMi (Refraction Microtremors)
 - Ground Penetrating Radar (GPR)
 - Electromagnetic Induction (EM31, EM34, EM38, EM61)
 - Earth Resistivity Imaging
 - Magnetics
 - Gravity / Microgravity
 - VLF
 - Blast/Vibration Monitoring
 - Subsurface Utility Detection
- **Borehole Geophysics –**
 - Crosshole Seismic Testing
 - Crosshole Seismic Tomography
 - Borehole Geophysical Logging
 - Acoustic Televiwer (ATV)
 - Optical Televiwer (OTV)
 - Heat-Pulse Flow Meter (HPFM)
 - 3-Arm Caliper
 - Fluid Temperature
 - Fluid Resistivity
 - Natural Gamma Ray
 - Spontaneous potential (SP)
 - Normal Resistivity
 - Single Point Resistance (SPR)
 - Electromagnetic Induction (EM)
 - Borehole Deviation
 - Borehole Video Logging
 - Video Logging of Deep Drilled Shafts
 - Borehole Radar
- **Dimension Stone**
 - ASTM Testing
 - Failure Analysis
 - Quarry Evaluations
- **Litigation Support Services —**
 - Document Review & Consulting
 - Expert Testimony.

Call us for the things we do well!

Why We Do What We Do

Every person at H-R is acutely aware that our surface and borehole geophysical services contribute to protecting the health and safety of the public and to preserving our cultural and natural resources.

That's probably similar to why you do what you do, too. **Call us!**

Our Mission

To fulfill our clients' needs in geophysics, using experienced professionals who enjoy their work and are totally committed to quality and professional development.

WBE/DBE Certifications

- New Hampshire DOT
- Vermont AOT
- Maine DOT
- SOMWBA (Massachusetts)
- Mass Highway, MassPort, MBTA
- Connecticut DOT
- Rhode Island Dept. of Development
- Empire State Development (NY)
- New York State DOT
- Metropolitan Trans. Authority (NY)
- The Port Authority of NY & NJ
- New Jersey Dept. of Commerce
- New Jersey DOT
- New Jersey Transit Authority
- Ohio DOT
- Indiana DOT
- Illinois DOT



There is no sense of time when logging in a deep shaft – especially with people watching



Afternoon in Texas – measuring gravity



Late in the day on the river – borehole geophysical logging by a spillway

H-R STAFF

PRESIDENT	Dorothy Richter, P.G.		
VICE PRESIDENT	Gene Simmons, Ph.D., P.G.		
ADMINISTRATION	Lyn Mercer		
TECHNICAL STAFF	José Carlos Cambero Calzada	New York/New Jersey Regional Office Manager	NJ
		Senior Geophysicist	
	Jeffrey Reid, P.G.	Senior Geophysicist	NH
	Steven Grant, P.G.	Senior Geophysicist	NJ
	Robert Garfield	Senior Borehole Geophysicist	NJ
	Alexis Martinez	Geophysicist	NJ
	Bryan Carnahan	Geophysicist	NJ
	Eric Rickert	Geophysicist	NH
	Brooks MacFarquhar	Geophysicist	NJ
	Vanja Dezelic, Ph.D.	Geophysicist	NH
	Nicholas DeCristofaro	Geophysical Technician	NJ
	Harrison Newman	Geophysical Technician	NJ
DRAFTING/CAD	William Desmarais	CAD Manager	NH
	Kenneth Roginski	CAD Operator	NJ

Visit our Web Site — www.hager-richter.com

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