Board of Directors
Candidate Statements

2017-2018 TERM OF OFFICE

Ballots MUST be Confirmed by Wednesday, November 30, 2016

Geothermal Resources Council
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Candidate Statements

Bridget Ayling

Bridget Ayling is the Director of the Great Basin Center for Geothermal Energy at the University of Nevada, Reno (UNR), and is an Associate Professor in the Nevada Bureau of Mines and Geology at UNR.

Bridget is a passionate advocate of geothermal energy, and has been a geoscientist in the sector for nearly a decade. Her experiences to date include involvement in both conventional and EGS geothermal projects in USA and Australia, and positions with Geoscience Australia (Australian Government) and the Energy and Geoscience Institute at the University of Utah.

With her recent move to UNR, she is excited about the opportunities for innovative, applied research to support the geothermal sector in the USA and abroad, as well as for collaborative partnerships with developing countries to support them in realizing a geothermal future.

If elected to the GRC Board of Directors, she will champion the revitalization and modernization of the GRC, to ensure that it maintains its relevance to members, and continues to effectively deliver on its educational mission.

Derek Benson

I am the Vice President of Business Development at EnergySource, a company based in Southern California focused on the development and operation of geothermal projects at the Salton Sea.

I have been working in the renewable energy sector as a project developer and asset manager since 2001 after an early career as a consulting engineer. On that path, I acquired a diverse commercial background and perspective owing to various project and managerial roles at large multinationals (Shell Chemicals and Reliant Energy (now NRG)) and small independent power producers.

I have a civil engineering degree from Louisiana State University and an MBA from the University of Texas at Austin.

My goal as a board member will be to advance the GRC mission and the geothermal industry as a whole in a dynamic and ever-changing technology and energy policy landscape. My professional experience is focused on sustainable development and the role renewable energy plays in achieving that goal through commercialization of new projects, advocating sound regulatory policy and legislation at numerous state and federal levels, and exploring the impacts of new energy technology. I believe that background will serve the GRC well and I appreciate your consideration in the GRC elections.

Richard Campbell

Director of Geothermal Services at Tetra Tech and former President of the Ben Holt Company. Current GRC Board Member. Earned an M.S. in chemical engineering from the California Institute of Technology. GRC Board Member (1989-98, 2004-16), GRC President (1995-96 & 2011-12), and service on many committees of the organization.

I believe I can add benefit as a member of the GRC Board of Directors in a number of ways. First, having served as a Board Member for over 20 years and as GRC President for 4 years, I am familiar with the history of GRC and the challenges faced by the geothermal industry.

Second, I have been involved in the design, construction, start-up, and operation of numerous geothermal power plants and direct use facilities, so I have first-hand knowledge of education and research needs.

And third, I deal directly with the difficulties of bidding hard-dollar contracts in this relatively high-risk industry. This can provide an important perspective in helping the GRC best serve the worldwide geothermal community.
Louis Capuano Jr.

Louis Capuano Jr. was born and raised in Biloxi, Mississippi. Attended the University of Southwestern Louisiana, in Lafayette, LA majored in Petroleum Engineering. Worked as an Oil and Gas Drilling Engineer on offshore drilling rigs from 1971 to 1974 then moved to Santa Rosa, CA for Signal Oil and Gas Co.

I founded ThermaSource, Inc. in 1980 and developed it into a geothermal service company suppling many services to the Geothermal Industry, such as Drilling Engineering Services, Rotary Drilling rigs, Cementing Service Company, a Geothermal Mud Logging Co., A Geothermal Mud Company and a Geothermal Exploration Co.

Left ThermaSource, Inc. in January 2012 and founded Capuano Engineering Co. which specializes in Geothermal Drilling Engineering Projects as well as Project Management. ThermaSource and Capuano Engineering Co. have worked many international and domestic Geothermal Projects.

Louis Capuano, Jr. has been an active member of the Geothermal Resources Council for the past 20 years and has served as President for two terms, 1999 and 2000 as well as 2013 and 2014 Santa Rosa, Ca. He has been around the geothermal industry for the past 42 years and is active at all levels. He has conducted many Geothermal Drilling Workshops and seminars for the GRC. He presently a member of the International Geothermal Association’s Board of Directors.

Louis Capuano III

Louis Capuano III was born and raised in Santa Rosa, Ca. He has been around the geothermal industry for his whole life and still remembers visiting rigs in the Geysers and Dixie Valley when he was three years old.

Louis graduated from Louisiana State University in 2006 with a Petroleum Engineering degree. He was going to work in Halliburton’s cementing lab in Lafayette, LA, but decided to move back to California and work with his father Louis Capuano Jr. at ThermaSource.

While at ThermaSource, Louis worked as an onsite supervisor in The Geysers and Utah geothermal fields.

He also designed and managed several geothermal drilling operations around the western hemisphere.

He along with Louis Capuano, Jr. and Dr. Bill Livesay have been the teachers of the geothermal drilling section of The National Geothermal Academy held at The University of Nevada, Reno.

In February 2012, Louis and his father moved away from ThermaSource and opened Capuano Engineering Company. He is currently working on several projects in the United States and is looking forward to larger project in Europe starting next year.

In the past two years as a board member of the GRC, Louis has been chairman of two committees; the nomination committee and the student committee. As the chairman of the student committee, Louis is assisting the student members to form university chapter of the GRC and orchestrate additional involvement by the students to the GRC.

If re-elected to the GRC board of directors, I would continue the level of excellence that has been maintained throughout the years by the various board members. Throughout the last four years, I have assisted with bringing more awareness to the student community of the GRC as well as implementing university chapters. Our goal is to have a chapter of the GRC (run by students and professors) at colleges throughout the world in order to get more students aware and involved in the geothermal industry. I am proud to announce that 7 student university chapters of the GRC are formed and having regular meetings. I have enjoyed seeing the increase in educational workshops throughout the world and am very pleased to see the GRC contributing greatly to this endeavor.

I would like to see an expansion of the current scholarship program with a minor focus on undergraduate students. This would be a method of bringing additional attention to the Council as well as helping the education of potential new members.

As a continued board member, I would look forward to helping the GRC with the annual meetings and keeping the level of professionalism that I have admired for years.
Rod Colwell

Founder and Chief Executive Officer of Controlled Thermal Resources, with 25 years of commercial development experience. I am a seasoned senior executive, 21 years of which have been at Director level with a demonstrable track record of commercial success. I have significant experience in commercialization of new development with an emphasis on value realization and capital management.

Controlled Thermal Resources (CTR) is currently developing a scalable 250 MW Geothermal project at the Salton Sea, Imperial Valley, CA. The ultimate development potential is 750 MW that will be staged in 125 MW trains.

If successfully appointed to the Board of the GRC, my goal is to drive the message that new Geothermal Development is a commercially viable option; by demonstrating how to lower the levelized cost of electricity, from hands on experience through our development.

I have simply applied my commercial development experience and background to geothermal development, with a very different, commercially driven approach.

I believe as an industry we need to learn from our best practices and also from our worst practices. We should adapt to the changing technologies available and focus on delivering cheaper sustainable Geothermal Power. I firmly believe that there is a competitively priced position for geothermal in the market as a base-load replacement of the carbon fuel power industry!

Geothermal education is important and I look forward to helping GRC further the goals of advancing geothermal development through education, outreach and dissemination of research. If elected, I bring my years of boots on the ground geothermal knowledge to the table -- from the bottom of the hole to the electron on the wire!

My career in the geothermal industry began in 1980 when I went to work for McCullough at the Francisco Lease at The Geysers. I joined the Calpine team in 1988 when it was contracted to operate that Geysers steam field. I worked at the Aidlin power plant shortly after its startup and hit the ground running, working to make the plant's abatement system more efficient and economical. Along the way, I have had many unique opportunities to learn about geothermal, providing me the experience and insight needed to increase plant and field efficiency. Outside The Geysers, I have worked on projects in Mexico and Glass Mountain, advising in a variety of technical areas.

Throughout the course of my career in geothermal, I have been actively involved with the GRC. It is always a pleasure to offer my expertise during the technical paper review and supporting the annual meetings. On the work front, I volunteer many hours leading Geysers tours – from third graders to graduate students, it is truly enriching to share geothermal energy production and how it works.

At this juncture of my career, I am looking forward to engaging actively as a GRC board member. Encouraging and mentoring students toward the geothermal industry and promoting geothermal in the public sector are two areas of interest to me. If elected, I bring my years of boots on the ground geothermal knowledge to the table -- from the bottom of the hole to the electron on the wire!

My educational background includes Bachelor of Science degrees in Mechanical Engineering and Agricultural Engineering as well as a Master of Science degree in Agricultural Engineering ABD from U.C. Davis and I am a registered professional mechanical and civil engineer. When not working or leading Geysers tours, I enjoy farming walnuts, cycling, sipping Lake County wine and spending time with my two adult children, Nik and Katie.

Tim Conant

This year, I am seeking your vote to serve on the Geothermal Resources Council’s Executive Board. The geothermal industry has provided me with an engaging, prosperous career. I work as Calpine’s Engineering Director at The Geysers overseeing the Resource group. With nearly 37 years of geothermal experience under my belt, I am hopeful for the opportunity to join the board and serve the geothermal community in this meaningful way.
**Warren T. Dewhurst**

Dr. Warren T. Dewhurst, founder and managing member of Dewhurst Group, LLC (DG), has been involved in the Earth sciences, geothermal exploration, engineering, and management since the early 1970s.

His academic background began with a bachelor’s degree in geophysics from the Colorado School of Mines (CSM), followed by a master’s degree in mechanical engineering from Catholic University, and a doctorate in geophysics from CSM.

His research interests include the development of the Global Positioning System in a geodetic context as well as the application of Bayesian inference for simultaneously inverting multiple and discrete data sets over geotectonic spreading centers. He is also a registered professional engineer (PE).

After serving briefly as a commissioned officer in the US Army and in the National Oceanic and Atmospheric Administration (NOAA), he was appointed as chief geophysicist of the NOAA Coast and Geodetic Survey in 1991. During his tenure in NOAA, Dr. Dewhurst developed close relationships with the Russian Academy of Sciences and the international geosciences community. Between 1991 and 1995, he founded and directed the Geophysical Technology Transfer Initiative (GTTI) between Russia and the United States. GTTI was likely the first official US government initiative to bring Soviet remote-sensing and geophysical technologies, primarily used for military purposes, to civilian applications outside of Russia.

He has published many scientific articles and monographs. Among numerous awards, Dr. Dewhurst has earned some of the highest commendations within US government service, including the US Department of Commerce Gold and Silver medals as well as the Society of American Military Engineers Colbert Medal.

With groundbreaking projects in Latin America, DG opened up geothermal exploration and development in Colombia, South America. DG has provided technical expertise to Empresas Públicas de Medellín E.S.P. and the Colombian Government, influencing legislation vital to the development of the geothermal industry in Colombia. This work was recognized by the Geothermal Energy Association (GEA) as DG was presented with GEA Honors in 2014 for Economic Development.

Dr. Dewhurst has been a visible proponent of geothermal energy development in Latin America, with DG offices in Colombia and representatives in Mexico and Chile. Further, Dr. Dewhurst was competitively selected to serve as the lead geothermal project manager for the Geothermal Development Facility for Latin America (GDF), while DG (along with Interlink Capital Strategies) was named as the fund manager for the GDF. Organized by the German KfW Development Bank, GDF is the first multidonor climate initiative within Latin America, covering ten Latin American countries over a ten-year span. GDF’s objective is to be a catalyst for more than €2B of investment in geothermal projects within the region.

Aside from technical and industry involvement, Dr. Dewhurst has been passionate about community education and participatory development of geothermal projects in local communities. DG is the only exclusive geothermal exploration and development company that is also an institutional member of the Society of International Development (SID – Washington, DC chapter). DG recognizes that responsible development is key to success in the geothermal sector. Dr. Dewhurst has developed close relationships with local communities and universities in Colombia, employing university interns and members of local indigenous populations to help with projects whenever possible. Dr. Dewhurst has spearheaded the development of the Geothermal News Report, a Podcast and blog on geothermal energy (www.geothermalnewsreport.com) as well as initiated a series of bilingual (English and Spanish) video tutorials that promote awareness of geothermal energy, particularly for school-age children and laypersons.

As a board member, Dr. Dewhurst would provide a unique perspective to the Geothermal Resources Council (GRC). He would promote the importance of social and environmental stewardship in addition to business goals. Specifically, he would encourage GRC members to embrace participatory development, engaging with local talent and populations in the development process. He would also promote educational opportunities for university students in the US and Latin America.

**Daniel Fleischmann**

Daniel Fleischmann is currently the owner of Mountain Man Alternative Energy Consulting based in Reno, NV. He was previously a Business Development Manager at Enel Green Power North America, Inc., where he managed a portfolio of solar and geothermal projects in the Western U.S., performed project due diligence, and energy market research and analysis to support Enel’s growth strategy.
Prior to that, he was Project Initiation Manager for Ormat Technologies Inc. where he was responsible for analyzing and tracking the domestic and global market for geothermal power and initiating power sales for all Ormat’s geothermal and solar projects in North America.

Daniel started his career as the Research Coordinator for the Geothermal Energy Association. He has helped develop approximately 200 MW of geothermal and solar projects in the U.S. He has been a speaker and presenter at numerous renewable energy conferences and events in North America; and an author of ten publications on renewable energy. He currently has been publishing articles on Renewable Energy World’s website.

Daniel has a Master’s Degree in Public Policy from George Washington University, Class of 2005.

Dan Hoyer

Dr. Dan Hoyer joined VEIZADES, in 2014. He holds a B.S, M.S, and a Ph.D. in Civil Engineering from the South Dakota School of Mines and Technology. Adding to his educational knowledge, Hoyer has over 40 years of hands-on experience working in New Zealand, Indonesia, Philippines, Turkey, Kenya, Djibouti, Caribbean and USA, The Geysers, Brawley and Salton Sea. Hoyer has broad experience in design, construction and operational roles ranging from Project Engineer to Vice President and General Manager, responsible for exploration, well tests, geothermal reserves, drilling, procurement, construction, commissioning and operating resource and power plant systems in dry steam, flash and binary. Within these roles, he has been responsible for controlling and reporting financial and operational results to banks and investors, negotiating PPAs, and operating agreements. During his career he has shared his knowledge through numerous published papers and patents.

Recently, Hoyer was recognized by his peers and received the Ben Holt award from the Geothermal Resources Council for outstanding achievement in the development of geothermal resources worldwide.

If elected I would like to use this experience to contribute to the GRC Board leadership and outreach internationally and in the USA. I have spent my career successfully promoting geothermal energy as a cost effective renewable energy source.

James Lovekin

Field Operations Manager, GeothermEx, Inc. (Richmond, CA). Current GRC Board Member.

Twenty-nine years of experience in the development and assessment of geothermal resources, with expertise in field operations, geology, reservoir engineering, drilling, and project economics.

I regard the GRC as a prime forum for exchanging geothermal technology, as well as promoting the benefits of geothermal energy to the general public. In my most recent term on the GRC Board of Directors, I have served as Chair of the Foundation Committee and have participated in the review of student applicants for GRC educational grants, as well as selection of recipients of the 2016 GRC awards.

If re-elected, my main priorities will be making sure the GRC serves the needs of its membership (both within the United States and internationally) and enhancing the credibility of our industry.

Frederick L. Manuel

Mr. Manuel is CEO and co-founder of Manuel Weyman Group, Inc., a mechanical engineering and power generation project management provider, based in Reno, Nevada. He has a mechanical engineering degree from Vanderbilt University, is a licensed professional engineer (PE) in the State of Nevada, and is certified as a Project Management Professional (PMP®) by the Project Management Institute.

Mr. Manuel's experience includes 36 years within energy project development, engineering, construction and operations, including 20 years’ experience focused on the geothermal industry. His geothermal experience began in 1987 as an operations engineer at the Desert Peak power project.

Since then, he has held senior management and executive positions within Chevron, CalEnergy, Calpine, and Gradient Resources. His experience includes management of geothermal projects at Desert Peak, Coso, Beowawe, Roosevelt Hot Springs, the Imperial Valley, the Geysers and Patua.
His international experience includes residency in Jakarta, Indonesia, while Chief Operating Officer (Asia) for CalEnergy. During this time, Mr. Manuel managed development activities for Indonesian projects at Dieng, Patuha, and Bali, as well as Upper Mahiao, Mahanagdong, and Malitbog projects in the Philippines.

Mr. Manuel is a passionate advocate of geothermal energy and asks for your support in electing him to the GRC Board of Directors.

**John F. Matthew**

President, JFMPE, Inc.

I have been actively employed in the geothermal industry since 1981. My experience involves most aspects of geothermal field operations and power generation, including gathering system and power plant designs. This includes The Geysers, the Salton Sea, Imperial County binary and steam plants, and numerous Basin and Range installations. Overseas experience includes The Philippines, Indonesia, Nicaragua, Kenya, and Papua New Guinea.

I like to look at each resource and corresponding development as unique, worthy of independent thinking and solutions where applicable. Decades of attending to operations and maintenance functions of geothermal installations does help one focus on the long term success of any given development.

I am excited for the opportunity to serve the GRC, to help provide a both sense of vision and practicality in support of our industry.

**Leland “Roy” Mink**

In 1972, Leland “Roy” Mink began his career as a hydro-geologist with the Idaho Bureau of Mines and Geology. Later, he worked for Department of Energy and then as a hydrology project engineer for Morrison-Knudson Company in Boise, Idaho. For more than ten years, he directed the Idaho Water Resources Research Institute at the University of Idaho and most recently, served as program director of Geothermal Technologies Program for Department of Energy in Washington DC.

Roy earned a BS from Idaho State University and an MS in hydrology and PhD in geology from the University of Idaho. He has held positions of research faculty with Southern Methodist University and University of Alaska, Fairbanks. 

Currently, he resides in Idaho and is the principal with MINK GEOHYDRO INC consulting in water and geothermal energy. Roy sits on the board of directors for US Geothermal Inc and Pagosa Verde LLC. He has served on the National Science Academy Earth Resource committee and is a member of the board of directors for Geothermal Resources Council where he is seeking an additional term.

**Joe Moore**

Energy & Geoscience Institute at the University of Utah.

I have worked actively with the geothermal industry and with the GRC since 1975, joining the Board of Directors in 2005. I have chaired the Education, Nominations and Audit Committees, and have served on many of the Board’s committees. In my capacity as a Board member, I worked to improve the quality of our geothermal meetings and in particular its educational program. I have provided support to the geothermal industry, trained students in geothermal geology and exploration, and promoted the awareness of geothermal energy by actively participating in GRC activities, geothermal conferences, outreach programs and workshops.

I am particularly proud of the GRC scholarship program. Under this program, seven deserving undergraduate and graduate students receive scholarships ranging from $1500 to $4500 to further their geothermal education. I will continue to promote and expand our educational activities.

In 2017, I will serve as the General Chair of the Annual Meeting that will be held in Salt Lake City. I look forward to seeing you there.

**Jon Trujillo**

Jon Trujillo is a geologist with over seven years of geothermal operations and development experience, and a total of twelve years of industry experience, including mineral exploration in Latin America and geologic modeling. Beyond his technical experience, Jon has taken graduate courses in
finance, accounting and organizational behavior, which he applies at Berkshire Hathaway Energy – Geothermal (CalEnergy).

Since 2012, Jon has been the senior geoscientist at the Salton Sea geothermal field for CalEnergy, and started with the organization as their geochemist in January 2009. His role includes resource management, well targeting, compliance reporting, tracer flow testing, capacity forecasting, budget creation, drilling & operations support, and development evaluation.

Mr. Trujillo obtained a B.S. in Geology & Geophysics from the University of Missouri – Rolla (currently, the Missouri University of Science and Technology) in 2002 and spent two years focusing on isotope geochemistry and igneous tectonics at Virginia Tech’s geosciences graduate program. The business courses noted above were taken at the Harvard University Extension School.

Jon’s goals for membership on the GRC board are to: 1.) help represent opportunities and interests at the Salton Sea geothermal field, and 2.) promote a sustained workforce for geothermal industry. We’ve all witnessed the geothermal boom in 2010 and the recent oil & gas crash. Sharing our talent surpluses, shortfalls and forecasts with GRC and academia will better allow us to fill those needs and establish expectations. Establishing this type of communication will help to manage the ebbs and flows in the industry.

Jeff Witter

Dr. Jeff Witter is a volcanologist with over ten years of industry experience. He has a broad academic background in both geology and geophysics, and has provided his expertise to the geothermal industry since 2008.

His geothermal exploration work includes projects in Alaska, the Yukon, the Northwest Territories, British Columbia, and Nevada. From 2008-2010, he led the exploration program at Sierra Geothermal Power Corp. which resulted in the awarding of two U.S. Department of Energy Innovative Exploration Technologies grants worth $10 million focused on the Alum and Silver Peak geothermal properties in Nevada. Over the past several years, as a geothermal consultant, Jeff has provided services to various clients in government as well as private industry in both Canada and the U.S.

Currently, he is Principal Geoscientist at Innovate Geothermal Ltd., a private geothermal consulting firm in Vancouver, Canada. The focus of Jeff’s professional work is 3D geological/geophysical modeling and integrated interpretation of geoscience data for improved geothermal exploration as well as technical due-diligence evaluation of geothermal assets.

For the last four years, Jeff has served on the geothermal technical advisory committee for Geoscience BC, a non-profit that pursues energy and mineral initiatives for British Columbia. Jeff has a Master’s degree from the University of Hawaii, a doctorate from the University of Washington and is a registered professional geoscientist (PGeo) with the Association of Professional Engineers and Geoscientists of British Columbia.

Candidate statement: “I have been an active member of the GRC since 2008. I am running for the GRC Board of Directors out of a desire to serve and help guide the future course of the world’s pre-eminent geothermal energy organization. I believe that the GRC provides great value to the global geothermal marketplace and I am confident that my experience,
communication skills, and positive energy will help GRC continue to do so."

**Shigeto Yamada**

General Manager, Geothermal Power for Fuji Electric Co., Ltd., a supplier of geothermal power plants worldwide. Current member of Board of Directors of GRC since 2003, the member of Board of Directors of IGA of the current term 2016-2019 and also a member of some Committees and Association in Japan. I have been working for 35 years in geothermal power plant projects worldwide.

If elected, I will contribute my activities through Japan’s geothermal society and the IGA to the GRC as an international member of the Board of Directors and also like to disseminate information from GRC to the other geothermal societies worldwide for the further expansion of geothermal energy usage.

**Kate Young**

GRC’s primary goals are education and outreach. GRC has a strong history of providing education to its members through activities such as the annual meeting, fieldtrips, and workshops.

As a member of the GRC Board for the past 2 years, I have been an active participant in the development of a strategic plan to help set the direction of GRC’s future efforts, including increasing its outreach beyond the geothermal community. I am excited about the opportunities the board and staff have outlined for increasing geothermal outreach, and would love the opportunity to help implement these strategies over the next several years. I have served in many varied educational roles … from a high school geology teacher in Zermatt, Switzerland … to developer of software training materials for large clients at Accenture … from successfully educating judges as an expert witness in Colorado water court cases … to developing clear, credible, objective analyses as a geothermal analyst at NREL. I am excited about the opportunity to utilize these experiences in helping to further the GRC’s educational goals, targeting many varied audiences: communities, policy makers, utilities, investors, students, agencies, and the present and future geothermal industry members. Thank you for your vote!

Since 2008, Ms. Young has been working as a senior energy analyst for the National Renewable Energy Laboratory, focusing her research on geothermal analyses, regulatory and permitting concerns, and more recently on geothermal resource reporting methodologies. Ms. Young has developed innovative tools, such as the Geothermal exploration and area case histories on OpenEI, a wiki-based, crowd-sourced information sharing Website; and the Regulatory and Permitting Information Desktop (RAPID) Toolkit, a collection of publicly available information about permits and regulations affecting energy and bulk transmission project development. The resource is intended to facilitate communication between project developers and agency personnel, among agencies at all jurisdictional levels, and among all project stakeholders - including the public.

Katherine Young received a bachelor’s degree in geological engineering and geology from the University of Wisconsin in Madison and a masters’ degree in Geochemistry from the University of Michigan in Ann Arbor. She has also worked as a field engineer for Schlumberger Dowell, a geology instructor, and a database software designer, developer, and trainer.