COMMITTEE ON NATURAL RESOURCES
114th Congress Disclosure Form
As required by and provided for in House Rule XI, clause 2(g)(5)

Subcommittee on Energy and Mineral Resources legislative field hearing on:

- **H.R. 3734 (Rep. Cresent Hardy),** To amend the Surface Mining Control and Reclamation Act of 1977 to provide support to mining schools, and for other purposes. *"Mining Schools Enhancement Act."*

December 14, 2015

For Individuals:

Name:
Address:
Email Address:
Phone Number:

* * * * *

For Witnesses Representing Organizations:

Name: Mr. Leigh Freeman
Name of Organization(s) You are Representing at the Hearing: The National Academies of Sciences, Engineering, and Medicine
Business Address: 500 Fifth Street, NW, Washington, D.C. 20001
Business Email Address: eeide@nas.edu
Business Phone Number: 202-334-2392

* * * * *

For Nongovernment Witnesses ONLY:

1. Please attach/include current curriculum vitae or resume.

2. Please list any federal grants or contracts (including subgrants or subcontracts) related to the subject matter of the hearing that were received in the current year and previous two calendar years by you or the organization(s) you represent at this hearing, including the source and amount of each grant or contract.

None.

3. Please list any contracts or payments originating with a foreign government related to the subject matter of the hearing that were received in the current year and previous two calendar years by you or the organization(s) you represent at this hearing, including the amount and country of origin of each contract or payment.

None.

Leigh W. Freeman
Principal, Leigh Freeman Consultancy Inc
650 South Cherry Street, Suite 525
Denver, Colorado, 80246
Office (303) 321-3844 Cell (303) 809-3737
Leigh@LeighFreemanConsultancy.com

Focus on Talent Serving the Natural Resource Sectors
Strategic Planning / Entrepreneurship / Strategic Staffing / Employee Development
Innovation - Creativity / International Exploration – Operations - Development / Venture Capital Funding / Junior Company Management / Sustainable Development

Realizing synergies between industry and the academic community. A proven executive team member and leader in designing, building, and motivating teams to implement strategic business plans and translating business strategies into organizational capabilities. Extensive operations and corporate experience - domestic and international projects and companies.

Career History

LEIGH FREEMAN CONSULTANCY INC., Denver, Colorado **January 2015 to Present**
Leigh Freeman Consultancy executive search firm is the successor to Downing Teal Inc. We are a niche executive (retained) search firm serving the mining resource sectors by providing high-potential talent to augment and supplement leadership teams and talent pipelines.

Principal
- Performs team-talent assessments, gap analysis and succession assessments.
- Maps client strategies, tactics and culture in the context of industry peers. Specifically identifying marketable competitive advantages for sourcing and retaining talent.

DOWNING TEAL INC., Denver, Colorado **April 2001 to December 2014**
Downing Teal is the largest global recruiting organization serving the resource and construction industries. It has some 80 senior search consultants specializing in recruiting for the mining, energy, and construction industries and their associated service and supplier organizations. Downing Teal has offices in Australia, the US, Canada, Chile, Colombia and Peru.

General Manager and Principal
- Develop, staff and implement a growth oriented business strategy for North America
- Open and staff new offices in Houston, Calgary and Mexico City.
- Business development and senior search
- Integral part of a virtual North American office, adding senior business and technical expertise

BLUE SUN ENERGY, INC., Denver, Colorado **July 2010 to Present**
Blue Sun is a private, technology-based alternative energy company founded in 2001. It produced the first branded bio-diesel and was recognized by INC magazine as one of the fastest growing bio-fuels companies in the US. It provided bio-diesel to the City and County of Denver as well as the City of Boulder and the Aspen ski area. Blue Sun holds a number of important patents including a specialized oil seed canola for the high plains and a membrane for oil separation from algae. Blue Sun realized the first full-scale commercialization of enzymes to economically convert lipids to bio-diesel. Blue Sun is commissioning the first demonstration plant to convert lipids to jet fuel with cost-competitive technologies. Annual revenues exceed $100M with an attractive profit margin.

Chairman, Chief Executive Officer and major shareholder

- Arrange approximately $20 million in financing for debt retirement, acquisition and capital improvements.
- Focus business plan that realized sustaining cash flow within five quarters. Specifically, reduce month burn rate followed by acquisition, financing, and start-up of 30 million gallon per year bio-diesel refinery in St. Joseph, Missouri and construction of a demonstration scale production plant for bio-jet fuel. . Also, execute and finance a ten-year agreement with a major diesel terminal in Cummins, Tennessee to provide blended bio-diesel.
- Focus company on value-added business plan within a transparent, positive corporate culture. Restructure company to facilitate both acquisition of technology-focused alternative energy business opportunities and efficient operation of these businesses. Revise compensation program to incentify performance. Add critical technical experts to enhance technology focus.
- Create Blue Sun Incubator for new business opportunities in alternative energy including bio-mass, electrical storage systems, and conversion of municipal waste streams to electrical energy.

FREEMAN AND ASSOCIATES, Golden, Colorado **1998 to 2001**

Freeman and Associates was a private 'virtual' organization of technical geo-professionals focused on the acquisition and development of domestic and international minerals properties. Active in precious metals and high-unit value industrial minerals in the western US and Latin America.

Principal

- Directed and funded programs in Bolivia, Peru and the US (Nevada, California, Montana)
- Worked with large and medium sized minerals companies and venture capital groups in the US and Canada

ORVANA MINERALS, Golden, Colorado **1986 to 1998**

Orvana is a junior exploration and development company listed on the Toronto Stock Exchange which achieved 'institutional grade'. Listed in the TSE 300 and the TSE Precious Metals Index in the mid 1990's. Recognized as one of the fastest growing companies on the TSE. Currently operating the underground Don Mario Gold Mine in Bolivia with initial cash costs less than $US100/oz of gold.

President and Director
Co-founder, Vice President, Director

As part of a small executive team, developed, staffed and implemented a business plan offering the quality and focus of senior company minerals exploration in a highly leveraged, entrepreneurial junior business entity. Secured private financing and developed strategic alliances with senior and medium sized mining companies. Initiated programs in the US/Canada and eight foreign countries. Raised some $75 million in venture capital funding from private and public sources in Canada, the US and Europe. Directly involved in the discovery of the first 'sediment hosted gold deposit' in the central Andes and the acquisition and development program for the Don Mario Deposit in eastern Bolivia which is now in production as the largest gold mine in Bolivia.

FREEMAN AND ASSOCIATES, Golden, Colorado **1985 to 1986**

A private exploration and consulting company. Acquired early stage precious and base metal properties in the western US and farmed out to large and medium-sized mining companies.

Principal

CONGDON AND CAREY (CoCa Mines), Denver, Colorado **1981 to 1985**
Congdon and Carey was a private minerals company focused on the acquisition and development of low-grade silver deposits in the US and Canada. Participated in the development of Candelaria (Nevada), Equity Silver (British Columbia) and Middle Buttes/Cactus (California).

Manager – Project Development

PLACER DOME (Acquired by Barrick Gold), Vancouver, British Columbia, Canada **1971 to 1981**
Today, Barrick / Placer Dome is a senior international gold producer. During the period of time referred to here, Placer Dome was an integrate mining company producing gold, silver, copper, mercury, coal and oil/gas.

Chief Geophysicist - Corporate, Vancouver, BC, Canada ***1978 to 1981***
Mining Engineer and Underground Shift Boss, Craigmont Mines, Merritt, BC Canada ***1977 to 1978***
Evaluations Engineer, Geophysicist, Project Manager ***1971 to 1978***
San Francisco, California; McDermitt, Nevada; Elko, Nevada; Whitehall, Montana

Academic Background

Awarded a BS, Geological Engineering from the Montana College of Mineral Science and Technology in Butte, Montana, 1971
Graduate work in business at Golden Gate University, San Francisco

Other

- An invited speaker at international conferences on the topics of the Business of Mining, the Role of Junior Companies in the Mining Industry, Talent, Creativity in the Mining Industry, Entrepreneurship, and Sustainable Development.
- Selected to participate in the Global Mining Initiative and Mining Metals and Sustainable Development. Served as a committee chair and co-chair. 199-2000
- Outstanding Alumni award from Montana Tech
- Industry Advisory Board for Montana Tech, Geological Engineering
- Industry Advisory Board for University of Arizona, Mining Engineering
- Industry Advisory Board for South Dakota School of Mines, Mining Engineering
- Industry Advisory Board Western State University, Professional Resource and Land Program, Business Department
- Ad hoc committee from Michigan Tech Mining Engineering program
- Invited author - SEG 100th Anniversary volume, and Keynote speaker
- SME Industry steering committee – (Former) Education Programs at Risk, Former Co-Chair Supply / Demand of Geo-professionals
- SME Sustainability committee
- Former trustee for Society of Economic Geology
- Former trustee for Montana Tech Foundation
- Chaired the task force for Aging Workforce for Industrial Minerals Association – North America
- National Academy of Science mining representative for report: Emerging Workforce Trends in the U.S. Emerging and Mining, 2009-2011
- Invited Paper for National Academy of Engineering - The Bridge, Paper on The Future of Mining, 2013