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RIP Randy Hooper

This is an amazing piece of work. Set aside some time to explore all the nooks and crannies. I have noticed a few inaccuracies, which means every reader should check his/her tribe's information.

Interactive map: Loss of Indian land

http://www.slate.com/content/slate/blogs/the_vault/2014/06/17/interactive_map_loss_of_indian_land.html

[From the World Cup to the Washington Football Team, Indigenous People Fight to be Seen](#)

Whether in Brazil or the United States, opponents of Native rights have taken to the tactic of pretending... m.thenation.com|By EndPlay

Celebrating National Aboriginal Day

Whether it's in Canada, the Amazon, the Serengeti or the Australian outback, Indigenous people speak of Earth as their mother and tell us we are created by the four sacred elements: Earth, Air, Fire and Water. From First Nations, Inuit and Métis in Canada and Indigenous people around the world, I learned that, as environmentalists, we had defined problems incorrectly. I had pressed for laws and institutions to regulate our interaction with the environment when, in fact, there is no environment 'out there,' separate from us. I came to realize that we are the environment.

National Aboriginal Day is a time for all Canadians who care about the kind of future we are leaving to our children and grandchildren to express our gratitude to the indigenous people across this land.~ David Suzuki

Amodei tribal bills passed by Natural Resources Committee

WASHINGTON, D.C. [A] The House Natural Resources Committee today passed two bills introduced by Congressman Mark Amodei (NV-2): H.R. 2455, the Nevada Native Nations Lands Act, includes seven tribal lands measures, as well as a smaller purchase by the City of Elko. And H.R. 3716, the Pyramid Lake Paiute Tribe Fish Springs Ranch Settlement Act, would approve an agreement reached by the two parties. The next step for the bills will be a vote by the full House.

â[A] [A] These are all cases where local control and economic self-determination are preferable to Washington-centric management by a federal agency,â[A] [A] said Amodei. â[A] [A] These lands

will enable the tribes to chart brighter futures for their communities and to better preserve their cultural heritage.â

Te-Moak Tribe of Western Shoshone Indians: Would transfer approximately 28,162 acres of Bureau of Land Management (BLM) land in Elko County to be held in trust to allow the South Fork Reservation to expand grazing and agriculture, develop housing, protect cultural and archeological areas, and to resolve checkerboard issues. The bill would also transfer approximately 373 acres of BLM land in Elko County to be held in trust for residential development, recreation and conservation.

Fort McDermitt Paiute Shoshone Tribe: Would transfer approximately 19,094 acres of BLM land in Humboldt County to be held in trust to resolve checkerboard lands issues. This would help to address law enforcement and emergency personnel jurisdictional questions, as well as enable the tribe to plan for housing development. In 1971, U.S. Senators Bible and Cannon from Nevada introduced a similar bill, but the legislation was never re-introduced.

Shoshone Paiute Tribes of the Duck Valley Indian Reservation: Would transfer approximately 82 acres of U.S. Forest Service (USFS) land in Elko County to be held in trust for housing and infrastructure to address the reservation housing shortage and to recruit doctors, nurses, law enforcement, conservation officers, and first responders.

Summit Lake Paiute Tribe: Would transfer approximately 941 acres of BLM land in Humboldt County to be held in trust for protection and management of Summit Lakeâs natural resources and fish population and to unify the reservation around Summit Lake.

Reno-Sparks Indian Colony: Would transfer approximately 13,434 acres of BLM land in Washoe County to be held in trust for the creation of a safety buffer around the Hungry Valley community. The housing is surrounded by BLM lands to the north, west and east, where multiple activities routinely occur, some permitted by the BLM and others prohibited, that illicit safety and quality of life concerns from residents. Such activities include off-roading, target shooting, illegal dumping, and unauthorized motorcycle racing. The lands also hold cultural significance and several of the landscape features are used for traditional religious practices and a source of medicinal plants.

Pyramid Lake Paiute Tribe: H.R. 2455 would transfer approximately 30,669 acres of BLM land in Washoe County to be held in trust to expand the reservation boundary to fully incorporate the watershed of Pyramid Lake. Other sections near the lake would be used for potential economic development and management efficiency. H.R. 3716 would approve a settlement between the Pyramid Lake Paiute Tribe and the Fish Springs Ranch. It protects a private water project and reasonably compensates the tribe from private funds for any actual or potential resource loss without the use of taxpayer dollars.

Elko County: Would sell approximately 275 acres of BLM land at fair market value to Elko County to establish a motocross, bicycle, off-roading or stock car racing area. The county would pay all costs associated with surveys and administrative costs for the preparation and completion of the transfer.

Brian L. Baluta, Congressman Mark Amodei (NV-2) Communications Director

Phone: 202-225-6155 Amodei.house.gov

2014 SUMMIT - Sierra Water Work Group Summit (SWWG) June 12-13, 2014.

A brief explanation of the Agenda by Liz Mansfield (SWWG) and Peter Pumphery (State Bar of California, Environmental Law Section)

Welcoming by Washoe Tribe of Nevada and California Chairman Darrel Kizer. Tribal Blessing by Hung A Lel Ti resident Dinah Pete, daughter Tara Brown, granddaughters Dinalyn Skenadore, Dashona Godowa, Natane Godowa and Corri Jackson.

Key Note Speaker with Q&A - Felecia Marcus, State Water Resource Control Board.

6/12/14 Disadvantage Communities (DAC) -

A 1st time viewing of the DAC documentary and brief presentation about Inyo-Mono Tribal grant and some of its outcomes and a open discussion with the audience about the future of DAC/Tribal engagement in IRWM (Integrated Regional Water Management) planning. Mark Drew, California Trout, Regional Manager/Inyo Mono IRWM Program, Program Director. Holly Alpert, Inyo Mono IRWM Program, Program Manger. Rick Kettleman Inyo Mono IRWM Program, Project Development Specialist.

Tribal Involvement IRWM -

Working with Tribes requires a different form of outreach, but can provide some exceptional benefits to IRWM and other planning processes throughout the Sierra. Perspectives on land responsibility, sovereignty, legal status of tribes in California and agency responsibilities, what this means to Natives on an individual and family basis: and local-level collaboration. Elizabeth Bentcourt, (Moderator), Forsgren Associates Inc., Watershed Science and Analyst. Gerald Jones, Bureau of Indian Affairs, Pacific Regional Office, Assistant Regional Forester. Shanti Warlick, California Indian Water Commission and Member of the Todd's Valley Consolidated Miwok Tribe. Dr. Don Hankins, California State University, Chico, Department of Geography and Planning, Assistant Professor. Kimberly Johnson-Dodds, M.P.A., M.A., Independent Historian

6/13/14. Fire Effects on Water: The Continuum of Controlled to Catastrophic.

There were 15 minute presentations followed by 15 minutes of Q&A. Overview of fire knowledge with regard to water quantity and quality in the Sierra Nevada. Forestry Regulation and Fire. Mokelumne River Project: Fire and possible fire effects on water resources. Hillslope Sedimentation and Water Quality in relation to the Rim Fire, Yosemite National Park, California. Kathy Wood-McLaughlin (Moderator). Tulare Basin Watershed Coordinator/TKM Consulting. Dr. Carolyn Hunsucker, Research Ecologist, USDA Forest Service, Southwest Research Station. Sharron Duggan, Attorney at Law, Environmental Protection Information Center. Nic Entice, Senior Regional Policy and Programs Analyst, Sierra Nevada Conservancy.

SWWG Climate Change/Water Supply Project

The SWWG Priority Project. Big Picture, assessment project, not engineering. the goals are 1) asses storage loss in Sierra do to sedimentation; and 2) asses potential management changes that

could be made under different climate change scenarios.

Kim Kubn, hydrologist, Yosemite National Park. Liz Mansfield, (Moderator), Sierra Workgroup, Director. David Yates, National Center for Atmospheric Research. David Groves, RAND Corporation. Elizabeth Betancourt, Forsgren Associates Inc. Toby Minear, United States Geological Survey, Research Hydrologist.

21 charts that explain how the US is changing | vox.com

<http://www.vox.com/a/how-the-us-is-changing?wpisrc=nl%5fwonk> **Turner Voices -**

**Pyramid Lake High School Students
Artists Reception**

artown

**WASHOE COUNTY
LIBRARY SYSTEM**
WWW.WASHOECOUNTYLIBRARY.NV

**Spanish Springs Library
7100A Pyramid Hwy.
Sparks, NV 89436
775-424-1800**

**Tuesday, July 1
@ 5:30 p.m.**

Philanthropic Giving

It's as much a part of the Turner Broadcasting DNA as world-class news gathering or groundbreaking entertainment television. Turner Voices, our signature corporate philanthropy program, brings together our commitment to the communities in which we live and work and our belief in the power of story to effect positive change in the world.

Through the financial support of organizations focused on high school-aged youth and the arts, and by leveraging our greatest assets — our people, products, technology and services — Turner Voices identifies and develops the next generation of storytellers.

Get to know some of our non-profit partners:

- [21st Century Leaders](#) - Inspires high school juniors and seniors through collaboration with businesses and education leaders.

- [VOX Communications](#) - Offers teens the skills and resources to raise their voices through a printed and online newspaper produced for them and by them.
- [Atlanta Film Festival 365](#) - An intersection of art, culture and commerce that fosters the growth and support of a strong media arts community.
- [Alliance Theatre's Hertz Stage](#) - Cultivates new playwrights, directors and producers and their original theatrical works.
- [Dad's Garage](#) - Engages, cultivates and inspires artists and audiences alike by producing innovative, scripted and improvised works.
- [GeorgiaFIRST Robotics](#) - Encourages students to explore science, technology, engineering and more.
- [Atlanta Celebrates Photography](#) - Dedicated to the cultivation of the photographic arts and the enrichment of the Atlanta art community.

Apply for Corporate Funding

If your program supports high schooled-aged youth or the arts, we welcome you to submit a corporate funding proposal. Although we accept unsolicited proposals, funding is typically awarded to non-profit organizations [501 c(3) tax exempt] that our Corporate Contributions department has proactively sought for partnerships in which our executives and employees have direct leadership and involvement. Corporate funding proposals are accepted throughout the year, but annual plans are formulated in the fall for major projects.

All requests will be considered, but due to the high volume of requests, not every request that meets the guidelines will receive funding.

Click the expand tab for information about our application process. **Open Grants**

Employee Volunteer Grants

When an employee spends 30 hours or more volunteering with a nonprofit, they may apply for a monetary grant to support the organization.

Matching Grants

Turner will match up to \$500 of an employee donation made to an educational institution or arts related nonprofit,

Update on Logo Controversies

[Meet The Native American Grandmother Who Just Beat The Washington Redskins](#)

Suzan Harjo was the driving force behind the cases that got the team's trademark... Business Insider

[Amanda Blackhorse: Seeing Red\(skins\)](#)

Amanda Blackhorse is a Navajo social worker living on-reserve in Arizona. She's also an activist leading the charge to have the Washington Redskins change th...

[Meet the Navajo Activist Who Got the Washington Redskins' Trademark Revoked: Amanda Blackhorse](#)

Amy Goodman and Juan González, Democracy Now!: The growing movement to change the name of the Washington Redskins football team has scored a surprising victory. The US Patent and Trademark Office has canceled the team's trademark registration after concluding its name and logo are disparaging to Native Americans. [Watch the Video and Read the Transcript](#)

<http://www.thewrap.com/fred-willard-offended-by-jimmy-kimmels-proposed-washington-redskins->

[name-change-video/](#)

Jon Stewart Destroys Washington Redskins' "Tradition" Argument For Keeping Name

Jon Stewart took on the Washington Redskins trademark ruling that came down...

The Huffington Post | By Michael Klopman

Gray Wolf Robert Griffin III A SHORT HISTORY LESSON!

During the entire history of America until the turn of the twentieth century, Indigenous Americans were hunted, killed, and forcibly removed from their lands by European settlers. This includes the paying of bounties beginning in the colonial period with, for example, a proclamation against the Penobscot Indians in 1755 issued by King George II of Great Britain, known commonly as the Phips Proclamation. The proclamation orders, "His Majesty's subjects to Embrace all opportunities of pursuing, captivating, killing and Destroying all and every of the aforesaid Indians." The colonial government paid 50 pounds for scalps of males over 12 years, 25 pounds for scalps of women over 12, and 20 pounds for scalps of boys and girls under Twenty-five British pounds sterling in 1755, worth around \$9,000 today — a small fortune in those days when an English teacher earned 60 pounds a year. Well, the term "scalp" offended the good Christian women of the community and they asked that another term be found to describe these things. So, the trappers and hunters began using the term "redskin"...they would tell the owner that they had bearskin, deer skins....and "redskins." The term came from the bloody mess that one saw when looking at the scalp...thus the term "red"...skin because it was the "skin" of an "animal" just like the others that they had...so, it became "redskins". So, you see when we see or hear that term...we don't see a football team...we don't see a game being played...we don't see any "honor"...we see the bloody pieces of scalps that were hacked off of our men, women and even our children...we hear the screams as our people were killed...and "skinned" just like animals...

*It is good to see the Indigenous strong women we went to college with making movement for the positive.
She is educating the public by being well educated herself on the subject. It is not easy to sit in front of the camera,
But also in front of millions of people worldwide
Good job sista representing those of us who could not participate, we are there in spirit and online
Myron Dewey Paiute/Shoshone...*

From Andre Kramlit: If you would like to write to the owner of Honest Engine about their logo their email is honestengineman@yahoo.com

This is what I wrote to the owner of Honest Engine: I am a member of the Karuk Tribe and I have been a customer off and on for over 20 years. I have never said anything about your logo because I understand it as a pun. Now I do think it is time to eliminate your logo. The business name is ok still as a pun but the image is offensive and has to go. It is broad caricatures such as these that dehumanize Native people. I have known you for a long time and have NEVER once felt any racism or nor bigotry in any of our interactions so please do not take this as a personal attack. I call upon you for the good of the community to voluntarily remove your logo. I know it will be difficult as it has served you since your inception but it is the right thing to do.



GrantStation

[Rosalynn Carter Institute for Caregiving: Rosalynn Carter Leadership in Caregiving Award](#)

The Rosalynn Carter Leadership in Caregiving Award recognizes leadership in implementing innovative partnerships between community agencies and caregiving researchers that bridge the gap between science and practice. Click above to learn more about the funding guidelines and application process.

[Peace Direct: Tomorrow's Peacebuilders Competition](#)

The Tomorrow's Peacebuilders' competition works to find the best emerging peacebuilding organizations across the globe. Click above to learn more about the funding guidelines and application process.

[Department of Education: Undergraduate International Studies and Foreign Language Program](#)

This program provides support to strengthen and improve undergraduate instruction in international studies and foreign languages in the United States. Click above to learn more about the funding guidelines and application process.

National Funding

Support for Children's Oral Health Programs

[Foundation of the American Academy of Pediatric Dentistry: Healthy Smiles, Healthy Children](#)

Healthy Smiles, Healthy Children (HSHC), an initiative of the Foundation of the American Academy of Pediatric Dentistry, is committed to improving the quality of pediatric oral health in

the United States. HSHC's Access to Care Grants support community-based initiatives throughout the country that provide dental care and ultimately serve as a Dental Home to underserved/limited access children. Special consideration will be given to programs supporting the age-one dental visit and providing care to special needs patients. These grants of up to \$20,000 require cash or in-kind matching funds equal to the grant request dollar amount. Online letters of intent must be submitted by August 18, 2014. Visit the Foundation's website to download the Access to Care Grants guidelines.

Grassroots Habitat Protection Initiatives Funded

[Patagonia Environmental Grants Program](#)

The Patagonia Environmental Grants Program provides support to small, grassroots organizations with provocative direct-action agendas that are working on multi-pronged campaigns to protect the environment. Patagonia funds activist groups that are dedicated to protecting local habitats in the United States and Canada, as well as in targeted countries around the world. The company is most interested in supporting organizations that work on the root causes of problems and that approach issues with a commitment to long-term change. Grants typically range up to \$12,000. Proposals are accepted through the Patagonia website during the months of April and August each year, and must be submitted by April 30 or August 31. (Applications are accepted year-round at local retail Patagonia stores.) Visit the website listed above to take the eligibility quiz and review the program's application guidelines.

Grants Enhance Student Services at Tribal Colleges

[First Nations Development Institute: Native Family Empowerment Program](#)

The mission of First Nations Development Institute is to invest in and create innovative institutions and models that strengthen asset control and support economic development for American Indian people and their communities. The Native Family Empowerment Program, a project of First Nations, will help develop services to support Native parents pursuing higher education at tribal colleges. Two tribal colleges will receive a \$90,000 grant each to provide "bundled services" to their students who are also the parents of young children. These bundled services should include some form of social supports (child care, financial coaching, assistance accessing benefits, etc.) with financial empowerment (financial education, asset building, workforce readiness, etc.). Online letters of interest must be submitted by July 23, 2014. Visit the First Nations website to review the application guidelines and process.

Youth Service Organizations Supported

[Youth Service America: Global Youth Service Day Lead Agency Program](#)

Youth Service America (YSA) is a resource center that partners with organizations committed to increasing the quality and quantity of volunteer opportunities for young people to serve locally, nationally, and globally. YSA's Global Youth Service Day Lead Agency Program offers organizations support to lead high-impact, high-visibility youth service activities and celebration events during Global Youth Service Day, April 17-19, 2015. Lead Agencies will receive a planning grant of \$1,000 to \$3,000 funded by State Farm, capacity-building training, and ongoing consultation. Typically, Lead Agencies are local, regional, or statewide nonprofit organizations with a focus on youth development and positive community engagement. Nonprofit organizations in the U.S. and the provinces of Alberta, Ontario, and New Brunswick in

Canada are eligible to apply. The application deadline is July 31, 2014. Visit the YSA website to learn more about the program.

Regional Funding

Funds for Community College Programs for Mississippi Women

[Women's Foundation of Mississippi](#)

The Women's Foundation of Mississippi supports nonprofit organizations that improve the lives of women and girls throughout the state. The Foundation is currently accepting applications for the "Access to Opportunity: Community College" focus area. Grants ranging from \$40,000 to \$60,000 will be provided to community colleges that seek to enhance career counseling and remedial education for women, expand and improve student supports and services for women, and increase access to financial aid and other financial supports. Nonprofit organizations that work closely with community colleges are also eligible to apply. The application deadline is August 1, 2014. (Interested applicants are encouraged to contact the Foundation prior to applying.) Visit the Foundation's website to learn more about the grant guidelines.

Grants Enhance Folk Arts in California

[Alliance for California Traditional Arts: Living Cultures Grants Program](#)

The Alliance for California Traditional Arts (ACTA) promotes ways for cultural traditions to thrive now and into the future by offering advocacy, resources, and connections for folk and traditional artists. ACTA's Living Cultures Grants Program seeks to sustain and strengthen the folk and traditional arts throughout the state by providing grants of \$5,000 to California-based nonprofit organizations. The focus is on pathways to nurture, sustain, and engage participation in traditional arts practices. A wide range of projects will be supported, including public presentations, workshops and classes, equipment and materials, etc. The Alliance also offers the [Apprenticeship Program](#), which contracts with master artists to offer intensive training to qualified apprentices. Applications for both programs must be postmarked by August 1, 2014. Visit the ACTA website to download the application guidelines.

Support for Local Programs in Bank Communities

[Cathay Bank Foundation](#)

The mission of the Cathay Bank Foundation is to enhance the growth and success of communities the bank serves in California, Illinois, Massachusetts, Nevada, New Jersey, New York, Texas, and Washington. The Foundation's areas of interest include the following: Community and Economic Development, Education, Civic and Community, and Health and Welfare. Grants generally range from \$1,000 to \$10,000. The Foundation does not accept unsolicited full grant proposals; however, initial letters of intent may be submitted at any time. The application deadline for invited full grant proposals is August 30, 2014. Visit the Foundation's website to learn more about the Foundation's focus areas and the application process.

Louisiana Cultural Projects Funded

[New Orleans Jazz & Heritage Foundation: Community Partnership Grant Program](#)

The New Orleans Jazz & Heritage Foundation is dedicated to promoting the music, arts, culture, and heritage of communities in Louisiana. The Foundation's Community Partnership Grant Program supports nonprofit organizations and educational institutions throughout the state in the following categories: Jazz & Heritage After-School and Summer Education Programs in Music,

Arts, and Cultural Traditions; Jazz & Heritage In-School Education Programs in Music, Arts, and Cultural Traditions; Jazz Journey Presenting: Festivals and Concerts in Music and Performing Arts; and Jazz & Heritage Archive: Documentation and Preservation. Grants of up to \$5,000 are provided. The application deadline is August 1, 2014. Visit the Foundation's website to learn more about each of the grant categories.

Federal Funding

Low-Income Housing Improvements Supported

Department of Agriculture

The Section 533 Housing Preservation Grant program provides support to assist very low- and low-income homeowners in repairing and rehabilitating their homes in rural areas. The program also assists rental property owners and cooperative housing complexes in repairing and rehabilitating their units if they agree to make such units available to low- and very low-income

persons. The application deadline is July 24, 2014.

Pi-ume-sha Treaty Days

Recognizing 159 years since the, June 25 - 1885, Treaty signing, creating the Warm Springs Reservation

June 27, 28, 29, 2014

Warm Springs, Oregon

45th Annual Individual & Team Dance Competition

this year's theme: "History of the Whipman ..."

Ol' Style Specials - Men's Round Bustle - Women's Shell Dress - 3 Person Hand Drum - Owl Dance/Rabbit Dance - Other Specials

TRADITIONAL DRESS PARADE

PowWow Information

Isaac Mitchell & John Katchia Co-Chairman's	
Gessie Katchia- 541-225-1573(jc/SS3-2126(w), Louise Katchia 541-460-0224(jc)	
Other Pi-ume-sha Activities:	
Traditional Dress Parade	Rayona Greene-Ross, (541) 553-2409(w) 450-0077(w)
Black Games Tournament	Sam Berry, (541) 553-2121 (w)
Endurance Horse Race	Wally Graybeal, (541) 553-4840 3237
Polio	Cheryl Tom, 541-553-9697
All Indian Fry Bread Golf Tourney	RVV Golf Pro Shop 541-553-4977
Fun Run	Community Center, 541-553-3243
Boating	Audie Smith (541) 553-2798 + Charlene Moody
Men & Women Softball	Bonnie Greene/Jerry Simpson @ 541-553-6819
Museum Special Exhibit	541-553-3317

Program Seeks to Improve Life for Impaired Adults

Department of Education

The Technologies to Enhance Independence in Daily Living for Adults with Cognitive Impairments program supports efforts that will contribute to improved outcomes related to independence in daily activities in the home, community, or workplace setting for adults with cognitive impairments. Optional letters of intent are due July 10, 2014. The application deadline is August 4, 2014.

Funds Available for Public Transportation Projects

Department of Transportation

The 5309 Bus and Bus Facilities Program (Ladders

of Opportunity Initiative) provides support to public transportation providers to finance capital projects to replace, rehabilitate, and purchase buses and related equipment and to construct bus-

related facilities. The application deadline is August 4, 2014.

Neighborhood Improvement Efforts Supported
Department of Housing and Urban Development

The Choice Neighborhoods Planning Grants program supports the development of comprehensive neighborhood revitalization plans. The application deadline is August 12, 2014.

Take a Walk on a Leaky Uintah Basin Oil Well With a Whistleblowing Oil and Gas CEO

Heather Murdock and Emerson Urry, EnviroNews: In response to national news in late May that pointed to a potential cluster of stillborn births in the heavily drilled and fracked Uintah Basin, the hosts take you inside a leaky and sadly typical oil well in this vastly exploited area. [Watch the Video and Read the Transcript](#)

From: [National Security Forum <rj@nationalsecurityforum.org>...](mailto:rj@nationalsecurityforum.org) [View it in your browser.](#)

SUMMARY OF DR. FISHER'S PRESENTATION ON 'FRACKING' TO
THE NATIONAL SECURITY FORUM JUNE 19, 2014

Dr. Bert

Fisher, a research scientist and expert in environmental litigation, presented a comprehensive report on Hydraulic Fracturing to the National Security Forum at the Ramada in Reno, Nevada, on June 19, 2014.

Much has changed since the Arab Oil Embargo of the mid 70's, and the low point of domestic oil and gas production of 2005. Dr. Fisher told the audience that crude oil and natural gas reserves and production in the United States, have increased markedly while imports have decreased. North America--the U.S, Canada and Mexico--are rapidly becoming the world's leading producers of oil and gas. By 2020, North America will be energy independent. The U.S. is poised to overtake both Russia and Saudi Arabia as the world's top petroleum producer this year, and already is the #1 natural gas producer, having just surpassed Russia.

This is due to the advent of horizontal boring/drilling and the increasing use of, and constant improvement to, an extraction technique known as "Hydraulic Fracturing". 'Fracking', which has been in use for more than 70 years, is a mining technique in which a liquid (in most cases, water) is mixed with sand and chemicals, and the resultant mixture is injected at high pressure into a well. This creates small fractures in deep rock formations along which gas and petroleum can migrate to the well. Dr. Fisher described the state-of-the-art process of horizontal drilling and hydraulic fracturing.

Dr. Fisher showed how the industry has minimized potential environmental concerns by improvements to exploration, drilling, including well-head security and casing integrity, and transportation of product.

Dr. Fisher reported that the increases are good news for American energy independence, oil field and associated infrastructure security and our balance of payment deficits. This revolution in technology has permitted the U.S. to convert planned LNG *import* terminals into *export* terminals. The same could be true for oil except that there has been a 40-year ban on U.S. oil exports (designed to keep gasoline prices down).

Dr. Fisher gave a brief history of oil production in Nevada, and the potential for giant increases in our state's oil production with the development of oil and gas leases in northern and north central Nevada.

Dr. Fisher's PowerPoint presentation on 'fracking' can be viewed by clicking here.
