



CRES NEWS

Newsletter of the Colorado Renewable Energy Society

VOL. 15 • NO. 3

A Chapter of the American Solar Energy Society

MAY/JUNE, 2010

May Meeting - Topic: Biopower Update June - Annual Colorado Renewable Energy Conference



Clean Energy: Let's Get to Work!

**Info Sessions-Exhibits-Tours-Workshops
Opening Reception - Awards Ceremony Dinner**

Montrose Pavilion

1800 Paviion Drive, Montrose, Colorado

Keynote Address
9:00am - Saturday

Don Marostica
Director, Colorado Office
of Economic Development
and International Trade

Featured Speaker
4:00pm - Saturday

Vice Adm. Richard Truly
Former Head of NASA,
NREL and Shuttle
Commander

See following pages for more details

The May meeting of the Colorado Renewable Energy Society will take place at the **Jefferson Unitarian Church** at 14350 W. 32nd Ave. in Golden. (On 32nd Ave. about 1 mile west of the I-70 interchange). **The meetings will begin at 7:00pm** and there will be a reception to follow.

The meeting will be held on **Thursday, May 27**. The featured speaker will be **Richard L. Bain**, Principal Engineer, National Bioenergy Center, National Renewable Energy Laboratory (NREL). He will be giving us an update on "biopower." Biopower is a proven electricity generating option in the United States. With 54.3TWh of generation in 2009 it is the second largest source of non-hydro renewable generation after wind at 70.8TWh. This presentation will address questions about the availability and capability of both resources and technology.

Dr. Bain has extensive experience in the thermal conversion of biomass, municipal wastes, coal, and petroleum. He is a lead researcher in the area of production of transportation fuels and hydrogen via biomass thermochemical conversion and is a technical advisor to DOE on biomass demonstrations. He has been a member of the International Energy Agency Biomass Working Group for 18 years and has published more than 80 papers and has 10 patents in energy.

**CRES Monthly Meeting
Accessible via WEBCAST**

To access the CRES webcast go to www.cres-energy.org and follow the "webcast instructions" posted there.

Colorado Calendar

This column features dates for meetings and other events relevant to Coloradans interested in renewable energy.

May 22...Granby Earth Day. A full day of celebration of Earth Day with live music, community recycling drive, fire dancing, skate park competition and many other events. *Time:* 11:00am - 7:00pm. *Location:* Polhamus Park, Grandby. For further details visit www.thissideofberthoud.com.

June 5...RMSLA Workshop: Intro to Off Grid Systems. Teaching the fundamentals of off grid energy systems. *Time:* 9:00am - 5:00pm. *Location:* Fort Collins. For further details visit www.sustainablelivingassociation.org.

June 9...Colorado Environmental Coalition's "Rebel with a Cause" Gala. An evening celebrating CEC's *Rebel With a Cause* winner, Terry Tempest Williams who is a renowned naturalist, environmental activist, and award-winning author of *Refuge* and *Finding Beauty in a Broken World*. *Time:* 5:30pm. *Location:* Sewell Grand Ballroom, 1103 13th St., Denver. For further details visit www.OurColorado.org/Rebel2010.

June 23 - 25...LOHAS (Lifestyles of Health and Sustainability) Forum. A seminar on how to successfully approach LOHAS consumers with your products and services, how to understand the latest marketing trends, and a forum to network with like-minded executives from all LOHAS market sectors. *Location:* St. Julien Hotel and Spa, 900 Walnut St., Boulder. For further details visit www.lohas.com/forum

**Call for Homes
for viewing on CRES
Solar/Green Home Tour**

Denver Tour - September 25

Boulder Tour - September 26

Click on **Solar Home Tours** at:
www.cres-energy.org

CRES Hires New Executive Director



On March 22, 2010, CRES engaged seasoned renewable energy policy veteran Tony Frank as its new Executive Director. He succeeds Sheila Townsend who has served as our Executive Director for the last nine years. Sheila will remain with CRES as our Operations Director.

Frank brings extensive experience in renewable energy policy to CRES and has been involved in projects in Colorado, Wyoming and New Mexico since 2004. Formerly he was Manager of Development for Compass Wind, and Director of Renewable Energy Development for the Rocky Mountain Farmers Union (RMFU). At RMFU, he led renewable energy programs to support agriculture producers develop projects for such resources as wind, solar, small-hydro, biofuels, carbon sequestration and energy efficiency technologies. He recently served on the Colorado Task force on Renewable Resource Generation Development areas.

On accepting his new position Frank said, "I am pleased to join CRES and look forward to reaching out and supporting the many communities and organizations that are pursuing economic development through clean energy innovation." CRES President, Thom Johnson, remarked, "Tony's expertise in energy efficiency and renewable energy policy, plus his background in project management and development, make him the ideal fit for CRES as we solidify ourselves as Colorado's resource for renewable energy information."

Frank earned a Bachelor of Arts degree in Political Science from Vassar College and a Master of Public Administration from the U. of Colorado's Graduate School of Public Affairs. He is a third-generation Coloradan from Denver with family roots in the mining towns of Telluride and Leadville.

CRES Special Events

Friday, June 18 Pre-Conference

Workshops (Free):
9:00-4:00 Workshop 1 –
Bio-fuels/Bio-Energy (Montrose)
9:00-4:00 Workshop 2 -
GEO Regional Planning (Montrose)
1:00-5:00 Workshop 3 –
Micro-Hydro (Ouray)

4:00-6:00 **Registration**
Montrose Pavilion Lobby

6:30-8:00 **Reception** .
Montrose Pavilion

Saturday, June 19 Conference

5:00-6:00 **Cocktail Hour**
Cash bar for wine and beer
6:00 **Awards Ceremony Dinner**
Dinner Speaker - Steve Andrews
Video Presentation

Sunday, June 20 Post-Conference

10:00-2:30 **Tour:**
Renewable Energy
Self Guided and Free

Conference Cosponsors

PRESIDENT'S CORNER

CRES Members,

Major changes at CRES continue as the New Energy Economy in Colorado expands and evolves (plus acts as a model for the nation).

Since the last newsletter, Governor Ritter signed HB 10-1001 into law, increasing the Renewable Energy Portfolio Standard to 30% of the electricity generated by investor owned utilities to come from renewable energy sources by 2020. The bill signing event at SolSource headquarters on March 22 was very well attended by many CRES members, CoSEIA members, Environment Colorado personnel, members of Women In Sustainable Energy (WISE), and numerous renewable energy companies among others showing strong support for Colorado's bold leadership. The community of stakeholders in increased energy efficiency and the use of renewable energy is growing rapidly, with CRES becoming a major resource for everyone striving for a sustainable future.

There is news in this issue about the hiring of Tony Frank as CRES's first full-time Executive Director (expanding CRES fund development and policy activities). Sheila Townsend has agreed to be the first Operations Director of CRES (with much thanks) continuing her work growing the existing CRES events, organizing volunteers, and generally keeping CRES functioning. In addition CRES has new office space in the Habitat for Humanity Building - which includes a significant donation of furniture from the Association for the Study of Peak Oil and CITRON Workspaces..

Tom Konrad, one of our significant volunteers and contributors to CRES over the years successfully sold his home in Denver and has relocated to the east coast.. Tom was instrumental in getting the CRES Policy Committee formed and involved in discussions on policy at the State level and as the investment advisor for CRES, has donated much time, energy, and money to CRES. We all wish him well in his new adventures and thank him more than he knows for all of his efforts on behalf of CRES.

Any CRES member should feel free to contact Tony Frank, Sheila Townsend, or any Board member with any suggestions, questions, or concerns – especially relating to the further promotion of energy efficiency and renewable energy systems in Colorado.

The Colorado Renewable Energy Conference – “Clean Energy: Let's Get to Work” – is coming up June 18-20th in Montrose, sponsored by Delta Montrose Electric Association (DMEA) and San Miguel Power Association. Registration is open on the website at www.cres-energy.org or you can mail in the registration form included with this issue.

As always, CRES has several committees looking for volunteers. Please join us as we continue to push for a better future for Colorado.

Thom Johnson, *President*

NEW CRES OFFICE

CRES has established its first headquarter's office where Tony Frank will reside, business meetings will be held, and all CRES records stored. The address is:

3245 Elliot ST., Denver, CO 80211

CRES NEWS

CRES NEWS is the official publication of the Colorado Renewable Energy Society. The CRES address is:

**P.O. Box 933
Golden, CO 80402**

The address of the editorial office is:
**7877 E. Mississippi Ave. Ste 1504
Denver, CO 80247**
Phone or Fax: 303-377-0711
e-mail: paulnotari@cs.com

Editor: Paul Notari

Officers/Directors:

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CRES "HOTLINE"

303-806-5317

CRES INTERNET NOS.

e-mail: info@cres-energy.org

Web: <http://cres-energy.org>

Student/Teacher Corner

*Colorado students and teachers
we are seeking your input*

Did you know that... the least efficient schools use 3 times more energy than the best energy performers...and that ENERGY STAR schools cost 40 cents per square foot less to operate than the average performers?

What can you tell us about your school's renewable energy and energy efficiency efforts? Do you know how many kWhs and thermals your school consumes in a year? **Contact CRES at schools@cres-energy.org** and give us your school name and goals for renewable energy and energy efficiency.

Workshops
Friday, June 18th, 2010
9 AM – 5:00 PM



Workshop Registration (See description below – register early as seating is limited, lunch is on your own)

FRIDAY, June 18th Workshops

- ★ Workshop 1: Bio-Fuels, Bio-Energy, 9 AM to 4:00 PM (Montrose Pavilion)..... Free
- ★ Workshop 2: GEO Regional Energy Coordinator Planning, 9 AM to 4:00 PM (Montrose Pavilion)..... Free
- ★ Workshop 3: Micro-hydro, 1 PM to 5:00 PM (Ouray)..... Free

Workshop Information

Bio-Fuels, Bio-Energy

Friday, June 18, 9:00 AM – 4:00 PM

We will discuss the changing world of fossil fuels, the use of bio-fuels in vehicle fleets, grants and loans for bio-fuels and bio-energy projects, the economic development potential for bio-fuels, algae biodiesel development, cellulosic ethanol, jet fuel from wood waste, biomass resources in western Colorado and the potential for co-fire biomass with coal.

Scheduled speakers include: (Mayor of Montrose), Scott Shine (City of Montrose), Phil von Hake, Art Hale (State of Colorado), Alan Brown, John Gonzales, Pattie Snidow (USDA), Debra Wilcox (Bye Energy), (USFS speaker), (NREL speaker) and Lee Boughey (TSGT)

Registration: email public.relations@dmea.com

GEO Regional Energy Coordinator Planning

Friday, June 18, 9:00 AM – 4:00 PM

The Governor's Energy Office (GEO) will host a Peer-to-Peer exchange for Community Energy Coordinators (CEC). CEC's are under contract with GEO, and represent Colorado's 52 rural and mountain counties. This workshop will focus on policy and programs for reducing energy, water, petroleum and waste in government operations.

GEO's Commercial Buildings and Greening Government Program Managers will present information in the morning. During the afternoon session, CECs and GEO Program staff will brainstorm specific strategies and share successful case studies for saving energy and money in the public sector.

The workshop is open to staff from public entities or non-profits interested in learning about "greening government" initiatives.

Registration: email Angie.Fyfe@state.co.us

Micro-Hydro

Friday, June 18, 1:00 PM – 5:00 PM

Colorado has substantial, currently-untapped potential for the development of renewable, clean and local hydropower. Topics to be covered at the workshop will include the following: the current status of micro-hydro in Colorado; the FERC permitting process; support for micro-hydro available from the Colorado Governor's Energy Office; Federal, state and local financial incentives for micro-hydro; site-screening criteria for micro-hydro projects; and case studies of recently-developed micro-hydro projects in Colorado. The workshop will include a tour of Ouray micro-hydro installations, including the historic Ouray power plant, one of the nation's oldest micro-hydro generation plans.

Speakers will include representatives from the following organizations: Colorado Governor's Energy Office; Utilities (San Miguel Power Association, Delta Montrose Electric Association); Project Developers (Telluride Energy, Hydrowest, Ruedi Creek Water and Power); Recently-developed micro-hydro projects in Colorado (City of Ouray, City of Cortez, San Juan County Historical Society, Coal Creek Hydro).

Registration: email bkrisch@ouraynet.com



Colorado Renewable Energy Society

P.O. Box 933

Golden, CO 80402

Non-Profit Organization
U.S. Postage
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Denver, Colorado
Permit No. 4856

CREC Program Highlights

7:30-5:00 **Registration**

8:30-5:00 **Exhibit** (Open to the Public)

8:00-8:30 **Welcome to CREC 2010 and Montrose**
Kathy Ellis, Mayor of Montrose, DMEA Board Member,
Tony Frank, Executive Director CRES

8:30-9:15 **Keynote Address** - (Open to the Public)
Don Marostica, Director of Colorado OEDIT
"Going green is good business"

9:30-11:30 **Morning Breakout Sessions**
Communities/Policy:
Clean Energy: Technology Frontiers
Buildings

12:00-1:00 **Colorado Energy Forum:**

Denver Mayor John Hickenlooper (invited)
Congressman Scott McInnis (invited)

"Future of Colorado Energy and Associated Employment"

1:30-2:45 **Afternoon Breakout Sessions**
Communities/Policy:
Clean Energy: Technology Frontiers
Buildings

2:00-3:00 **DEMA Public Meeting**

4:00-5:00 **Joint CRES/DEMA Keynote Address**
(Open to the Public)

Vice Admiral Richard H. Truly
Former Head of NREL. NASA and Shuttle Commander
"Climate, Energy, Security"

ROSTER OF CRES BUSINESS MEMBERS

We thank the following organizations for their continuing support

82 Real Estate	Double D Diversified, Inc.	Resolution Energy, Inc.
Adobe Solar	Eco Direct	Shadows Ranch Resource Recovery Ctr.
Advanced Energy Systems, LLC	EMC Engineers	Sherwood Associates
All American Rolling Shutters	Energy Environmental Corp.	Silvertip Integrated Eng. Consultants
Apex Risk Solutions	Enermodal Engineering	Simple Solar
Arapahoe Community College	GCG Financial, Inc.	Simply Efficient
Arise Energy Solutions	Golden Solar	Sol Source, LLC.
Astralux Environmental Solutions	Gray Construction	Solar Energy Quest
Balanced Construction	Hicks Health and Safety, LLC	Solargreen Technologies
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Challenge International, Inc.	Larson Electric, Inc.	Stern & Curray, LLP
Chamberlin Architects	Lightly Trading Energy & Design	Sun Oneness Solar
CITRON Workspaces	Low Energy Systems	Sun Talk Solar
City of Ft. Collins - Climate Wise	Megginson & Assoc.	Sustainable Solutions, Inc.
Colorado Springs Utilities	Mi Cocina Mexican Restaurant	T Allen Agency, Inc.
Community College of Aurora	Mountain Muse Communications	Telluride Energy, LLC
Compas Wind, LLC	Namaste Solar	The Fort Restaurant
Cool Energy, Inc.	NexGen Energy Partners	Vibrant Solar, LLC
Delta Montrose Electric Assn.	Poudre Valley REA	Western Culture Resource Mgmt., Inc.
Denver Museum of Nature & Science	Real Goods Solar	Western Resource Advocates
DMA Engineering	Red Rocks Community College	