What Powers the Cell?

If you’ve ever taken biology, you have heard of the citric acid cycle, the Krebs cycle, or even photosynthesis. But do you realize how unnatural these are? There are two “natures”: the physical nature and biologic nature. Physical nature comprises matter, the forces that act on matter and the flow of energy throughout our material universe. Forces like gravity, electronic or magnetic fields or nuclear fields confine the flow of energy and particles. Energy can be in packets like photons, or energy of motion (kinetic) or stored energy (potential) or energy of order (entropy). Energy flow in chemical interaction is defined in terms of enthalpy and entropy. All of these physical nature dynamics can be demonstrated in laboratories and have been formulated in terms of laws by which matter interacts.

Biologic Nature follows all the rules of physical nature, but in a highly organized and constrained way that forces conditions and reactions to take place that usually would be difficult to do in normal environments.

This talk by popular speaker Dr. Mark Deming* will focus on the use and storage of energy in the cell and how amazing that process is. He maintains that if you step back from the pure memorization of a lot of weird molecules and the bookkeeping of ATP and NADH and look at the details of the process, any reasonable person would be forced to conclude that naturalistically it should not be here. Yet it must have been in place since the “earliest living organisms around 3.8 billion years ago” (by evolutionist belief) since it is shared by virtually every living organism that exists today. Mark assures us that we will not be lost in highly technical jargon, as he intends to make this entertaining and present in a way that is accessible to a general audience!

This month’s DSA meeting will be held on Saturday, July 16, 2011, from 9 to 11:30 AM, at Rolling Hills Community Church. Be sure to attend as we take an “energetic” look at cells from DSA’s “stand-up biologist”, Dr. Mark Deming!

*Dr. Mark Deming is a Chemistry and Math Instructor at PCC. He graduated with a B.S. in chemistry at California State University at Los Angeles (CSULA) and a Ph.D. in Chemistry at University of Southern California.

An Association for Good Science
Meets monthly at Rolling Hills Community Church, 3550 SW Borland Rd, Tualatin, OR 97062
Discount creation book & video sales table at every meeting.
For more information, call (503) 665-9563 Website: www.pdxdsa.org
Field Trip: Tualatin’s Ice Age History
Mega-flood and Mega-fauna

Saturday, July 30, 2011......Half-Day tour (4 hours) 8:00am – 12:00pm

Trip led by Rick Thompson who has extensively studied and mapped features in the area left by the cataclysmic Lake Missoula Flood.

Highlights of the trip include: Tonquin flood channel, Sherwood flood channel, Nyberg Creek Greenway flood channel, Koller wetlands and other kolk lakes and even a few ripple marks left by the flood. We will also stop at the Tualatin Library to view the remains of an ice age mastodon and bones of other ice age creatures found in Tualatin.

Cost: $30.00 for adults, $25.00 for students.

Tour cost covers: Charter bus, printed field trip guide and tour leader explanations of flood features.

For inquiries: Contact Sylvia Thompson at: sylvia@gigaflood.com or 503-257-0144

Outdoor School & Science Camp

for Christian Home-schoolers
Our 22nd Year! Sept. 6-10, 2011 [Tue. – Sat.]
Drift Creek Camp, Lincoln City, OR
Designed for age 9 to age 16
$175 for Campers ($160 if registered by July 6th with a $50 deposit.)
$125 for counselors

Outdoor-School/Science Camp is committed to teaching students about the wonders of natural things and events, in the context of a “hands-on” outdoor classroom. With a Biblical perspective and an emphasis on creation, campers learn about science in fun, innovative ways. The campers will develop a thoughtful appreciation and knowledge of the world that God created for our benefit. They will learn more about God’s handiwork and gain a proper understanding of the amazing interdependence of life in our universe. Science Camp is non-denominational and is for Christians who believe in creation, love science and enjoy the outdoors.

Registration is open now through August 23rd. A full set of forms is available on our web-site or by e-mailing us.

Questions? Call Darren or Brenda Nettrouer at 503-472-8352 e-mail at: Director@HomeschoolScienceCamp.com

Wednesday, July 27, 2011
Sunday, August 7, 2011 6:00pm at King Road Church

Speaking Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>June 24</td>
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Friday nights at 7:00PM from June 24th – August 12th

Answers

Bring your friends for a night of fellowship and answers.
Worship God, find answers to life’s deepest questions, and spend time in discussion, food, and fellowship.

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August 12| Steve Haley    | The Natural World as Evidence for God’s Existence|

Happy Valley Baptist Church
14095 Southeast King Road
Happy Valley, OR  97086

For questions email Andrew Janzen: ajanzen10@georgefox.edu or call: 503-761-8781
To help with music contact: Paul Janzen: prjanzen@students.phc.edu