

# WEST WIND

## NEWSLETTER OF THE PORTLAND AREA SAILPLANE SOCIETY



### Inside this issue:

April Hand Launch contest	Pg. 1
Club news and notices	Pg. 2
February Floater 3 Report	Pg. 3
February Floater Recap	Pg. 4
Next in Radio Technology	Pg. 5
Club Pictures	Pg. 6
Contest Schedule, pg 1	Pg. 7
Contest Schedule, pg 2	Pg. 8
Jim Riggle's Mini-Moa	Pg. 9
	Pg. 10
New battery chge method	Pg. 11
April Events	Pg. 12

### April's Hand Launch Contest

#### April's Hand Launch Contest

April 24th

At Molalla River State Park near Canby

Registration begins at 09:30

Pilot's meeting at 010:00

CD: Bob Nelson

503-645-5313

Wing span limit of 1.5 meters.

- Tasks will be from the FAI list of tasks.
    - Six rounds will be flown -
- AMA sanctioned event: cards will be checked.

#### **Club Officers & Officials**

##### **President**

Bruce Rose 503.848.2228

##### **Vice President**

Jim Gibson 503.669.7271

##### **Treasurer**

Tom Culmsee 503.667.4532

##### **Secretary**

Tom Fowler 503.281-6820

##### **Director**

Keith Ragsdale 503.521-0817

##### **Director**

Richard van Dijk 360.891-2188

##### **Contest Coordinator**

Amy Pool 503.262.8357

##### **LSF Coordinator**

David Portwood

503.381.6992

##### **Librarian**

Don Lawson 503.645.4007

##### **Web Page Editor**

Keith Ragsdale 503.521-0817

##### **Newsletter Editor**

Roger Breedlove 503.646.1695  
rogerzzzz@gmail.com

**NOTE we have moved to a different field at Willamette Turf. The new location is off Wabash Road just north of the office.**

**The Porta-Potty has been moved.**

**Big thank you to Terry Erickson for his field work!**

**PASS Meeting Notice for April 13th.** The next regular club meeting will be on Tuesday the 13th, at the Pizza place!

**PASS News, Notes and Requests**

## Please return these items asap. Thanks

**The club is missing several items from our equipment trailer like winch pedals, turnarounds and other winch accessories.**

**Our trailer is stored in the barn at the Willamette Turf field.**

**So if you used some of these items last year and they are still in the back of your car or truck, please return them to the trailer.**

**The Thermal season will soon be going strong and the CD's will need to be able to locate and use all of the equipment. Thanks**

### Aero Tow schedule update as of 3/1/10

From Jim Gibson, posted in RC Groups

[jim.gibson3@verizon.net](mailto:jim.gibson3@verizon.net)

#### Northwest AERO TOW events 2010

Yakima Aerotow..... May 21 to 23  
 Portland 1 day event..... May 29  
 Skamokawa..... Jun 25, 26, 27  
 Alpine Soaring JosephOr.... July 1-5  
 Monroe..... July 16-18  
 Mission B.C..... August 6-7-8  
 Prosser, WA..... Aug 20, 21  
 Skagit .....?\_?\_

#### P.A.S.S.. has 6 Aero Tow Dates this summer

May 29 sat  
 June 13 sun  
 July 17 sat  
 August 22  
 Sept 25 sat  
 Oct 23 sat

## February Floater Contest Report

### CONTEST REPORT FOR : Sunday February 28, 2010 floater thermal event

Location: Willamette Turf Farm  
8624 Wabash Drive Northeast  
Brooks, Or. 97305-9738

Time: 10 Am. To the last round in progress at 2 Pm

This was just about a perfect day for thermal flying! A very slight breeze from the North was stopped frequently in the morning by thermals moving by about every 5 minutes or so. All were good for more than 10 minutes of thermal flight. In the after noon they just got bigger but with more time between lift cycles. I got a couple of flights that were less than 2 minutes cause I wasn't being very careful when I launched. Those flyers that paid attention; had good results.

RESULTS:	1.	Dave Johnson, Ken Eaton (tie)	5100	points
	2.	Jim Gibson, John Long (tie)	5000	
	3.	Chris Brundege	4993	
	4.	Joe Brinton	4982	
	5.	Steve Ehrlich	4838	
	6.	Tom Culmsee	4762	
	7.	Mike Skeen	4413	
	8.	Keith Ragsdale	4313	
	9.	Jason hood	4272	
	10.	Dan Fiedler	4233	
	11.	Terry Erickson	4105	
	12.	David Gibson	3668	
	13.	Frank Bell	3450	
	14.	Robin Robinson	3286	

AWARDS: \$25.00 gift certificate good at Coyote Hobbies for the first place tie went Dave Johnson and Ken Eaton.

A few more quarters were gained by the flyers that could touch the top of the landing targets with the nose of their planes.

Thanks, every one! Terry and Robin, Co-CDs

<b>THE 2010 FEBRUARY FLOATER CONTEST RESULTS (TOTAL MONTH)</b>
--

<u>CONTESTANT</u>	<u>CONTESTS ENTERED</u>	<u>TOTAL SCORE</u>	<u>LANDING PTS</u>	<u>PLACE</u>
Dave Johnson	3	13820	110	1
Chris Brundege	3	13588	10	2
John Long	3	12290	0	3
Dan Fiedler	3	11748	30	4
Jim W. Gibson	3	11575	100	5
Mike Skeen	3	10648	0	6
Terry Erickson	3	10583	0	7
Keith Ragsdale	3	10366	0	8
Jason Hood	3	10245	160	9
Robin Robinson	3	9991	110	10
David Gibson	3	9902	0	11
Tom Culmsee	2	8960	130	12
Joe Brinton	2	8743	10	13
Steve Ehrlich	2	8693	0	14
Ken Eaton	2	8251	110	15
Bob Sterett	2	7269	0	16
Kevin Martin	2	7249	0	17
Roger Breedlove	2	6286	0	18
David Portwood	1	3834	0	19
Frank Bell	1	3450	0	20
Don Pesznecker	1	2590	0	21

AWARDS:	\$25.00 gift certificate from Coyote hobbies for highest landing score.	Jason Hood
	\$25.00 gift certificate from Coyote hobbies for 1 <sup>st</sup> place 1 <sup>st</sup> contest.	Dave Johnson
	\$25.00 gift certificate from Coyote hobbies for 1 <sup>st</sup> place 3 <sup>rd</sup> contest.	Chris Brundege
	\$25.00 gift certificate from Coyote hobbies for 1 <sup>st</sup> place 4 <sup>th</sup> contest.	Dave Johnson and Ken Eaton(tie)
	\$25.00 gift certificate from Coyote hobbies for 1 <sup>st</sup> place overall.	Dave Johnson

About \$75.00 in paper weight quarters went out for precision landing rewards.

Kevin Martin won the special Coyote Hobbies (first seen wearing Coyote hobbies hat) He got \$10 Coyote bucks.

Thanks for coming out into the sunshine!

CD's Terry Erickson and Robin Robinson

**WHATS NEXT IN RADIO TECHNOLOGY!**

Last month I was able to go to the mother of all trade shows. I don't recommend this to the average modeler because you will find yourself needing all sorts of things that you had no use for a couple of days earlier. Lucky for me, the item I need will not be available until late June. I will not name names but ads appearing soon will make things obvious.

**Let's just say I have been sworn to secrecy.**

**And here it is. What the world needs is another transmitter, to be more specific this is a 12 channel self-programming (say what) good for Airplane (power), Glider and Helicopter.** Yes I said, self-programming. I don't know how but you must use the companion Receiver that will be available in 5 ch, 8ch and 12ch. The receiver are small with the 12 ch slightly larger than a super slim. The 5ch is not much larger than a postage stamp. The Transmitter has all the bells and whistles that we have grown to expect. Completely programmable on all switches and then that is where the tricky process takes over.

It really does program itself. I will try to explain, after installing all the servos then turn on the power to the transmitter first then the receiver. Then go to the mode menu in the easy to read transmitter display, put the curser on number 10 and push yes.

**Then the magic happens.** Each servo cycles through full travel it then hesitates for 5 seconds, and then reverses them again with the 5 second wait then it sets the travel and that servo is done. The program then goes to slot 2 or servo 2 and does it's little dance again. A 6 servo glider is completely programmed in exactly 2 minutes. The strange part is that everything appears right. You will find Dual Rates, expo, Differential and mixing are all set. I was told that after test flying adjustments while flying are made by using a "more or less" switch that is on the left side of the transmitter.

**Don't ask me how but this works even for a helicopter. I was told the self-program will give a hands a off-hover on the first try.**

The good news is the pricing is very competitive. The 5 ch receiver is \$49.95, 8 ch \$79.95, 12 ch \$119.95 and the trans. is only \$449.95. These are expected street prices after the initial stock is worked through on the first release. Mine is on order and the down payment has been deposited, I really need one.

**Green Air**

Bob Sterett sez "Aero-Tow"



Fossil Fliers Club Meeting



Martin, new member enjoying a thermal.



Mike and Dave also in thermals.



Terry is throwing for Mt. Hood!



John's newest ship... Flies great.



<b>2010 Contest Schedule, rev. 12-09</b> Richard van Dijk, Coordinator
--

<p><b>April 3 Sat</b> F5B (Electric) Don Pesznecker 503-659-9624 10:00 Willamette Turf Farm</p> <p><b>April</b> <b>Easter 4 Sun</b></p> <p><b>April 24 Sat</b> <i>Salem Soaring Society</i> <i>RES, 2 Meter and Open contest</i> <i>Dan Fiedler</i> <i>503-559-9476</i> <i>10:00 pilots meeting</i> <i>Kuenzi Sod Farm</i></p> <p><i>Note: moved from March date</i></p> <p><b>April 11 Sun</b> Open Slope Race* Bruce Alber 503-799-1428 (cell) 11:00 location TBD</p> <p><b>April 17 Sat</b> F5B (Electric) Don Pesznecker 503-659-9624 10:00 Willamette Turf Farm</p> <p><b>April 18 Sun</b> *no-wind alternate date for slope race</p> <p><b>April 24 Sat</b> HLG Bob Nelson 503-645-5313 Molalla River State Park, Canby</p> <p><b><u>NWSS Tune up</u></b> <i>Mission, BC</i></p> <p><b><u>NWSS Tune up</u></b> <i>Mission, BC</i></p> <p><b>May 1 Sat</b> <i>Fern Prairie Modelers</i> <i>Celebration of Silent Flight</i> <i>Washougal, WA</i></p> <p><b>May 2 Sun</b> <i>Fern Prairie Modelers</i> <i>Celebration of Silent Flight</i> <i>Washougal, WA</i></p> <p><b>May 8 Sat</b> F5B (Electric) Don Pesznecker 503-659-9624 10:00</p>	<p>Willamette Turf Farm</p> <p><b><u>NWSS Crooks Memorial</u></b> <i>Lewiston, ID</i></p> <p><b>May 9 Sun</b> <i>NWSS Crooks Memorial</i> <i>Lewiston, ID</i></p> <p><b>May 15 Sat</b> Thermal Multitask Richard van Dijk 360-891-2188 9:00 Willamette Turf Farm</p> <p><b>May 16 Sun</b></p> <p><b>May 22 Sat</b> Barry Kurath Memorial 2-Meter/RES David Portwood 503-381-6992 (cell) 9:15 AM pilots meeting Willamette Turf Farm</p> <p><b>May 23 Sun</b> Barry Kurath Memorial 2-Meter/RES David Portwood 503-381-6992 (cell) 9:15</p> <p><b>May</b> <b><u>Memorial Day Weekend 29</u></b> Sat. Scale Aerotow Jim Gibson 503-669-7271 10:00 Hollin Airport, Brooks</p> <p><b><u>NWSS Ed Huffman</u></b> <i>Farragut, ID</i></p> <p>May <b><u>Memorial Day Weekend 30</u></b> Sun Hand Launch Terry Erickson 503-982-0792 9:30 Molalla River St Park</p> <p><b><u>NWSS Ed Huffman</u></b> <i>Farragut, ID</i> 503-381-6992 (cell) 9:00 Willamette Turf Farm</p> <p><b><u>NWSS</u></b> <i>Vancouver Thermals</i></p>
--	--

<b>June 5 Sat</b>	Thermal Deathmatch	<i>Fry Fly</i> <i>Pasco, WA</i>
David Portwood 503-381-6992 (cell) 9:00 Willamette Turf Farm		
<b>NWSS</b>		<b><u>Warbirds over Washougal</u></b>
<i>Vancouver Thermals</i> <i>Mission, BC</i> NWSS <i>Soar Paradise</i> <i>Spokane, WA</i>		<b>June 20 Sun NWSS</b> <i>Fry Fly</i> <i>Pasco, WA</i> <b>Cross Country at</b> <b>Montague, CA</b>
<b>June 6 Sun</b>	Slope Fun Fly/Workshop	<b>June 26 Sat LSF Thermalitis NWSS</b> Tom Culmsee 503-667-4532 9:00 Willamette Turf Farm
Bruce Alber 503-799-1428 (cell) 11:00 location TBD		<b>Dusters Big Bird</b>
<b>NWSS</b>		<b>June 27 Sun LSF Thermalitis NWSS</b> Tom Culmsee 503-667-4532 9:00 Willamette Turf Farm
<i>Vancouver Thermals</i> <i>Mission, BC</i>  NWSS <b>Soar Paradise</b> <i>Spokane, WA</i>		Willamette Turf Farm  <i>Dusters Big Bird</i>
<b>June 12 Sat</b>	<b>Salem Soaring Society</b>	
<i>Hand Launch contest</i> <i>Terry Erickson</i> 503-982-0792 10:30 <i>Kuenzi Sod Farm</i>		
<b>June 13 Sun</b>	<b>Scale Aerotow</b>	
Jim Gibson 503-669-7271 10:00 Hollin Airport, Brooks		
<b>June 19 Sat</b>	<b>F5B (Electric)</b>	
Don Pesznecker 503-659-9624 10:00 Willamette Turf Farm		
<b>NWSS</b>		

Club meetings held on second Tuesday of every month from 7:30 to 9:30 P.M. at Round Table Pizza, 10070 SW Barbur Blvd. Visitors are welcome.

Visit our web page at <http://passoaring.us>

For current event information, call the PASS Voicemail 503-321-5199:

To change outgoing message or to listen to received messages:

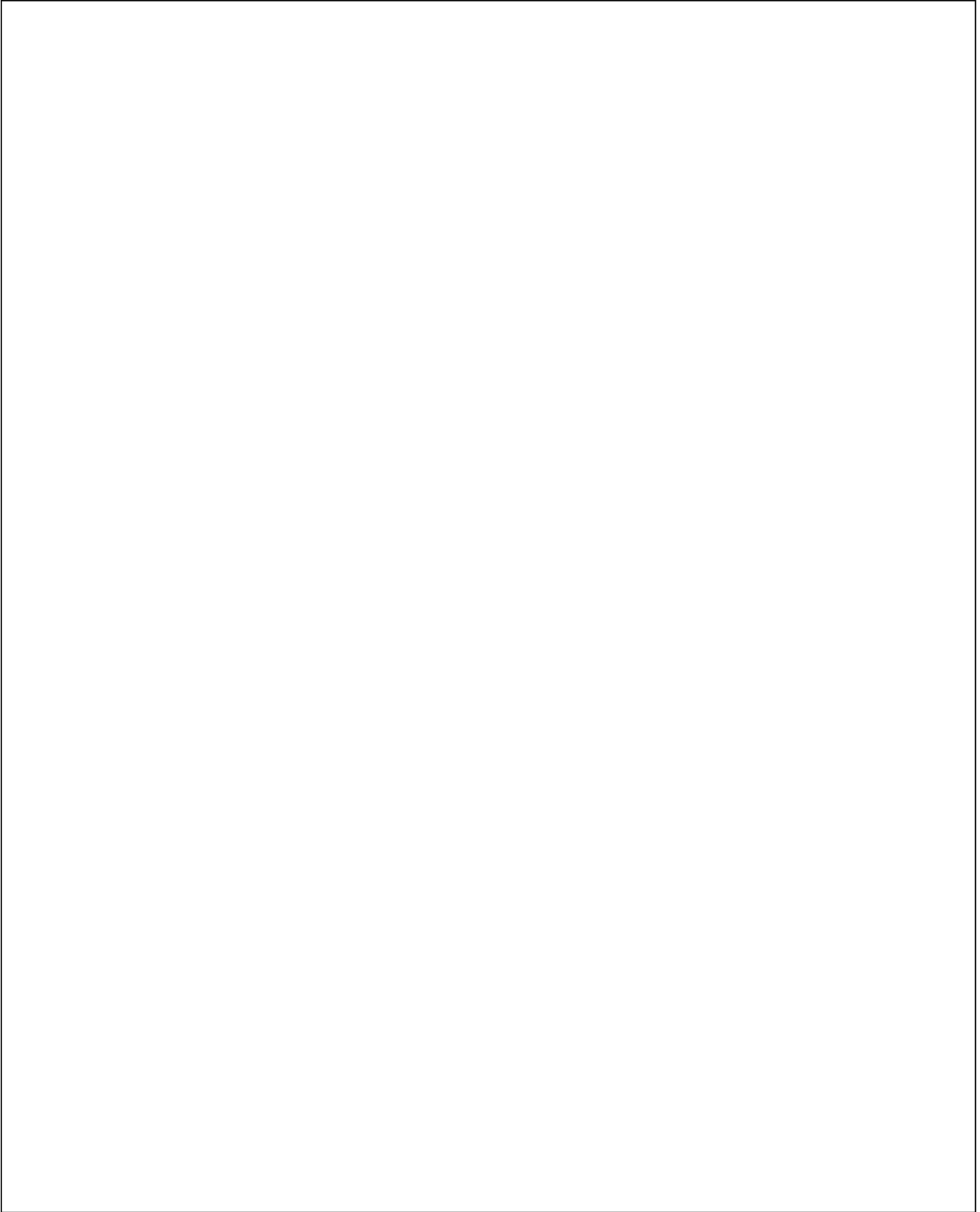
## Jim Riggle's Mini Moa

My XTG-11 / Minimoa recovering project finally feels like I'll get it done this decade and if fact, be ready for the aerotow May 29th. Attached are a couple of pictures. My friend, Tom Melton, and I have spent an easy 40 hours together recovering it with "silk" and dope. (Dress liner from Joann's.) Huge job but it's gorgeous. Look forward to moving on to my 33% Miss LA and recovering the wings on my 25% Grunau Baby.

Jim

PS Biggest issue in finishing the XTG-11 is the cockpit/canopy.





## New charging method could greatly reduce battery recharge time

[From Pikes Peak Denver Spoiler NL](#) March  
John Read, Editor

This site allows you to specify a prop from a table listing most of the APC and GWS props, enter the RPM that you expect to turn the prop, and the altitude at which you are to be flying. It will then give you the expected thrust which will be generated. It looks like a nice little complement to Motocalc, and its use is free.  
[http://www.gobrushless.com/testing/thrust\\_calculator.php](http://www.gobrushless.com/testing/thrust_calculator.php)

Bob Avery sent this link to a technology site, "Since many of you are interested in science and technology you might enjoy the news of recent developments and discoveries at this site."  
<http://www.physorg.com/> The battery charging scheme following is one of the items I found on the site (Ed).

### **New charging method could greatly reduce battery recharge time**

March 11, 2010 by Lisa Zyga  
This figure shows the fraction of non-intercalated lithium ions per time, with the different colors representing different amplitudes of the applied oscillating field ( $A = 5$  kCal/mol). The denominator in the exponential is the average intercalation time in nanoseconds, showing that a larger amplitude field speeds up ion intercalation. Credit: Hamad, et al.  
(PhysOrg.com) -- Part of the headache of having to constantly recharge batteries is not just how often they need to be charged, but

also the time it takes to charge them. In a new study, researchers have proposed a charging method that could greatly reduce the charging time of lithium-ion batteries, which are used in everything from electronic devices to electric vehicles. The new method uses an additional oscillating electric field (besides the charging field) that should be capable of charging a lithium-ion battery in a fraction of the time compared with traditional methods.

Researchers Ibrahim Abou Hamad from Mississippi State University and coauthors have developed the new charging method thanks to revolutionary developments in molecular dynamics simulations. In their study, the researchers simulated the [lithium-ion](#) battery charging process by simulating the intercalation (i.e. "insertion") of lithium ions into the battery's [graphite anode](#). Although intercalation is just one part of the charging process (along with diffusion), it dominates the charging time.

In the charging process, lithium ions first diffuse within the battery's [electrolyte](#) until they reach the [graphite anode](#). At this interface, ions must overcome an energy barrier in order to be intercalated into the anode.

In their simulations, Hamad and his team found that an additional oscillating electric field can lower this energy barrier, enabling lithium ions to intercalate more quickly into the anode. The oscillating field also

increases the diffusion rate, which helps further reduce the overall charging time, albeit to a lesser extent. Specifically, when the scientists applied an oscillating squarewave field with a frequency of 25 GHz and an amplitude of 5 kCal/mol to the [graphite](#) sheets in the anode, the lithium ions intercalated into the [graphite](#) sheets within an average time of about 50 nanoseconds. By changing the amplitude of the oscillating wave, the researchers found that they could further improve charging time by lowering the energy barrier and speeding up intercalation. Their simulations showed that the dependence of the intercalation time on the amplitude is exponential, meaning that a small increase in amplitude leads to a large increase the intercalation speed, which offers the potential for very fast charging times. In the future, the researchers plan to further investigate the new method, including analyzing how changing the frequency of the oscillating field effects the charging time. They noted that the new method might provide an increase in battery power densities, as well.

**More information:** Ibrahim Abou Hamad, M. A. Novotny, D. Wipf, and P. A. Rikvold. "A new battery-charging method suggested by molecular dynamics simulations." Available at [arxiv.org](http://arxiv.org).  
[Doi: 10.1039/b920970k](https://doi.org/10.1039/b920970k).  
via: [Technology Review](#)  
© 2010 [PhysOrg.com](#)



**Portland  
Area  
Sailplane  
Society**

P.O. Box 805  
Gresham, OR 97030

Mailing Address Line 1  
Mailing Address Line 2  
Mailing Address Line 3

# Upcoming Events:

<b>April</b>		
<del>April 24</del>	<del>Sat</del>	<i>Salem Soaring Society</i>
<i>RES, 2 Meter and Open contest</i>		
<i>Don Fiedler</i>		
<i>503-559-9476</i>		
<i>10:00 pilots meeting</i>		
<i>Karenzi Sod Farm</i>		
<i>Note: moved from March date</i>		
<b>April 11</b>	<b>Sun</b>	Open Slope Race*
<i>Bruce Alber</i>		
<i>503-799-1428 (cell)</i>		
<i>11:00</i>		
<i>location TBD</i>		
<b>April 17</b>	<b>Sat</b>	FSB (Electric)
<i>Don Pesznacker</i>		
<i>503-659-9624</i>		
<i>10:00</i>		
<i>Willamette Turf Farm</i>		
<b>April 18</b>	<b>Sun</b>	*no-wind alternate date for slope race
<b>April 24</b>	<b>Sat</b>	HUG
<i>Bob Nielson</i>		
<i>503-645-5313</i>		
<i>Molalla River State Park</i>		
<b>NWSS Tune-up</b>		
<i>Missison, BC</i>		
<b>NWSS Tune-up</b>		
<i>Missison, BC</i>		
<b>May 1</b>	<b>Sat</b>	Fern Prairie Modelers
<i>Celebration of Silent Flight</i>		
<i>Washougal, WA</i>		
<b>May 2</b>	<b>Sun</b>	Fern Prairie Modelers
<i>Celebration of Silent Flight</i>		
<i>Washougal, WA</i>		

**PASS Web Site-** Check out our NEW Web Site at:  
**[www.passsoaring.us](http://www.passsoaring.us)**

**PASS Event Line & Voicemail- (503)321-5199**  
**Sponsored by Tammie's Hobbies, Beaverton OR**