



AMA CHARTER 339

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GENERAL MEETING

Wednesday

Dec 9th

7:30 PM

The Club Meeting will be held at the **Goodnow Library in Sudbury**. Bring a friend or just come alone. See directions on the last page.

GUEST SPEAKER:

Jim Hall

Jim has started a company called "UThere" (pronounced "you there") whose primary goal is to bring the joys and benefits of flight to the common man via an affordable, dummy-friendly "personal UAV". A great presentation not to be missed!

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RAFFLE

First Prize

**F-15 Aggressor
Desert Camouflage
AIRFRAME ONLY**



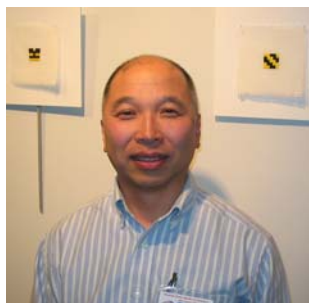
Second Prize

**Power Force
20 Amp Power Supply**



WON
a
COOL TOOL
for
Show-n-Tell

President's Letter



Year in Review

In addition to hosting our regular yearly events, CRRC hosted several new events. We had new electric glider events in the spring and fall, a 4th of July Flying Demonstration, a fall

float-fly. CRRC was again invited to participate in the Collings Foundation open house and also to the Minuteman Airfield's anniversary celebration. Rumor has it that the folks at Minuteman Airfield would like to have us back next year.

One of the goals that we set at the beginning of the year was to do more community outreach. The 4th of July event was very successful with many people stopping by to learn more about radio control flying. The Collings and Minuteman events also drew much interest from the public. The fall float-fly also drew some interest even though it was not announced to the public. Next year, we plan on adding a spring float-fly to the schedule. We plan on inviting the public to the float-fly events to come and watch and learn about flying and CRRC.

2010

While we continue to promote modeling and CRRC with the traditional and new events, we should also look for ways to improve the modeling experience for our current and new members. A few of the ideas that the Board of Directors have been discussing are more organized electric flying at Davis field on Sunday afternoons, more guidance for new and inexperienced members, and possibly a more accessible monthly meeting location. There is, of course, the ever present search for new flying sites.

I would like to ask all of our members to think about how we can improve CRRC and its activities for you and others. What do you like about the club? What do you not like about the club? What would you like to see changed? I welcome all ideas and suggestions as well as criticisms. Please feel free to send me email or call me.

New Board Members

I would like to welcome Dick Roy (Treasurer) and Dick Williamson (Chief Instructor/Safety Officer) to the Board of Directors. Also sincere thanks to Istvan Sleder and Brian Rickman for all their hard work on the Board of Directors for the past several years.

Winter Indoor Flying

Unfortunately, Lincoln-Sudbury Regional High School facilities will not be available for any indoor flying this winter. When searching for possible indoor sites last winter, I found LSRHS rentals were the least expensive. Most of the indoor sports facilities around the area had very high rental rates. If you know of any possible sites, please inform someone on the Board of Directors, and we will investigate.

Speaking of winter, ... it isn't quite here yet. No snow on the ground yet, so let's get out there and get some flying in before the temps drop below freezing.

Please fly safely, and I'll see you at the field.

- **John Eppling**
CRRC President

Treasurer's Reports

Report Date 12/03/09

Starting Balance 11/01/09

Checking	\$7,149.95
Cash Box	\$25.00
PayPal Acct	\$0.00
CD Accounts	\$6,770.64
Total Starting	\$13,945.59

Income

Interest - CDs	\$7.91
Raffle Income	\$88.00
Dues	\$70.00
Sale of Donated Items	\$36.60
Auction net income	\$1,134.23
Total Income	\$1,336.74

Expenses

Meeting room reservation, Check #1812	\$150.00
Meeting expense, Check #1813	\$50.40
Total Expenses	\$200.40

Ending Balances

Checking	\$8,278.38
Cash Box	\$25.00
PayPal Acct	\$0.00
CD Accounts	\$6,778.55

Grand Total Ending 11/30/09

\$15,081.93

Note: Report updated on 12/09/09

- **Istvan Sleder**
Treasurer



NOVEMBER GENERAL MEETING MINUTES



General Meeting Minutes for November 18, 2009.

Business Meeting.

President John Eppling called the meeting to order at 7:39 PM, at Goodnow Library, Sudbury, MA.



The treasurer's report and secretary's meeting minutes were approved as written in the October newsletter.



Field Reports.

The soccer goals have been removed from Davis Field. The access road to Bill Martin Field is bumpy, but the field is in fine condition.

Membership Report.

Membership chair Ray Harlan reports our membership roster stands at 118.

Board of Directors Volunteer.

Dick Roy volunteered to attend the November BOD meeting as member at large.

Old Business.

Ken Antonellis reported that the attendance at the club auction was the largest he had seen. There were 121 paid admissions. Ken suggests that next year we may want to reduce publicity. The meeting hall and parking area were at or above their capacity. Thanks go to Lincoln and Fritz for a great job as auctioneers. Linda on tickets, Kathy on food, bankers Tom B. and John, and Tom S. sold the raffle tickets. Also thanks to many CRRC'ers who helped. A big thanks goes to Ken for a fine job. Total Income \$1503: (\$242 admissions, \$837 commissions, \$181 food, 241 raffle tickets). Expenses \$360. Net \$1143.

John Nilsson reported that the club's ICOM scanner receiver is missing. It was borrowed and has not been returned.

New Business.

CRRC's annual election of officers for 2010 was held tonight. A unanimous affirmative vote was given for the slate of officers listed below.

President	John Eppling
Vice President	Richard Gammon
Treasurer	Dick Roy
Recording Secretary	Larry Wetmore
Membership Secretary	Ray Harlan
Newsletter Editor /	Tom Stammberger
Webmaster	
Chief Instructor /	Dick Williamson
Safety Officer	

Meeting Dates and Sites.

Ray Harlan reports that the Wayland Library is available as an alternate meeting site for our

March meeting, although we would have to vacate before their 9 PM closing Time. Both March and April dates were booked in Sudbury, necessitating an alternate venue. Tom Bauer offered a room at Wellesley College, as another alternative for both dates. The consensus was that Wellesley would be the better solution. Tom will verify the room's availability. CRRC's general meeting nights will return to the third Wednesday of the month for 2010. Note that the final meeting for this year will be the second Wednesday, Dec 9, 2009, at Sudbury.

A memorial service for Alex Lob, CRRC friend, and owner of Alex's R/C Hobbyworks, will be held November 21, at 3 PM, in Newton.

New Wings.

No new wings tonight.

Guests.

Jim Hall was a guest and new member tonight.



The business meeting closed at 8:03 PM.

Raffle Winners.

Ken Antonellis stood in for Tony tonight as raffle master. John Nilssen drew the winning number.



New member Jim Hall was our first prize winner and chose the Multiplex Fun Jet.



Tom Stammberger was the lucky second prize winner of the Sig Rascal C Kit.



Show And Tell.

Tom Bauer displayed his work in progress, a Tom Martin 1-26 EPP glider. Tom plans to fill, finish, and sand the foam, and cover with Ultracoat.



Lincoln Ross showed us his recent acquisition, a Park Zone mini foamy 4-channel electric, which he plans to gut and use the electronics for another model.



Jim Hall had an electric foam flying wing, which he calls his personal UAV. This model contains GPS, autopilot, a Pitot tube for reporting airspeed and onboard video with digital down link. Jim has been flying his wing at Davis. We look forward to hearing more detail about Jim's plane at a future CRRC meeting.

Tom Stammberger gave us a flying demo of his Air Hog mini coaxial helicopter. Tom rates its performance as a very stable performer once the spring on the throttle stick has been removed.



Evening Program.

Tonight's guest speaker was Adam Woodworth. Adam describes himself as a professional model builder, and has been involved in aviation from a very young age, when his father took him to fly RC in Plymouth, at the tender age of 18 months. He's been hooked ever since.



A recent MIT grad, Adam is a staff engineer with the Cambridge office of Aurora Flight Sciences Corp, where they breadboard emerging technologies to create man-pack sized and smaller UAVs that can perform slow flight in confined spaces. Hobby grade components form the basis for many of their prototypes. Other design criteria include quick and easy assembly and low cost.



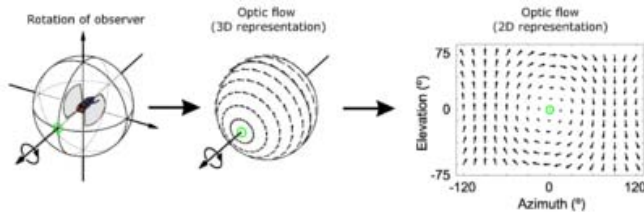
These aircraft must be small and light enough such that a soldier or law enforcement officer doesn't have to decide whether to take the UAV or trade it for another item at the start of their day. A soldier might use such a device to quickly

look around the next corner for an explosive device, or to fly through a parking garage looking for a bad guy. Return video and limited guidance allow the operator to see what the UAV sees.



Adam brought a sample UAV that consisted of a piece of depron foam folded up like a shirt cardboard, two brushless outrunners attached with magnets, and a slip-on pod containing navigation and control electronics.

A method called optical flow processes the inputs from multiple video and sonic sensors in the pod to create the image an operator sees.



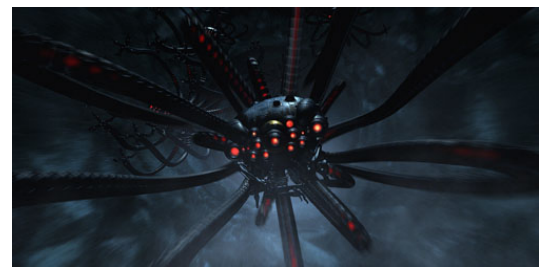
Optical flow is used by insects to evaluate patterns of points of light and dark, while humans process visual information by evaluating shapes, and edges. The optical flow method has a lower resolution requiring less computational horsepower, ideally suited for the digital processors in the UAV.

Adam also displayed video of a VTOL aircraft that while not quite as compact, is still very versatile. Looking like an oversized oatmeal box, the VTOL has an interesting attribute they call “Stick and Stare” which was discovered quite by accident.

The VTOL can hover up under a roof overhang, and attach itself (stick), or it can navigate to a window and literally clamp onto the glass, becoming relatively unobtrusive, all the while returning a video feed to the operator (stare). Once the VTOL has latched onto a surface, the throttle can be cut in half, increasing the battery life.



Remember these from “The Matrix”



Or maybe these from the original 1953 movie “War of the Worlds”.



The evening meeting concluded at 9:30

- **Larry Wetmore**
Recording Secretary

Our Guest Speaker: Jim Hall

Jim has started a company called "UThere" (pronounced "you there") whose primary goal is to bring the joys and benefits of flight to the common man via an affordable, dummy-friendly "personal UAV".

Live video, high bandwidth telemetry, and extensive ground control software puts the user inside the plane during flight. Robotics and an advanced IMU provide "training wheels", "panic button", and "safety cage" that make both "heads down" and "heads up" flight accessible to novices and less worrisome experts. The plane can be controlled by the new hobbyist in a simplified "video game" manner that holds desired roll and takes care of pitch and airspeed (also useful for "specked" gliders). It can pull just about any kind of plane out of a bad attitude, come back home, circle overhead, and even land autonomously at a designated spot.

For competitors and engineers, hundreds of metrics are transmitted and recorded with high time resolution, revealing secrets about airframe and maneuvers that are difficult to discern from the ground.

Jim plans to deliver the first product to market early next year. This is its first public presentation.

Jim is a software engineer who in 1995 developed Gemm.com, one of the world's first E-commerce sites (essentially an E-Bay for music). After selling his share in the business a few years ago, he was finally in a position to put an old physics degree to use, expand his skills, and pursue a lifelong love of engineering and obsession with flight. Before becoming completely engrossed in this venture, he spent many hours piloting full-scale gliders (not remotely) above Sugarbush, Vermont.

- ***Richard Gammon
Vice-President***

An afternoon of tree-climbing at Davis Field on Nov 29, 2009

On November 29, around 5:00 pm, I received an email from Dick Roy with a link to some pictures. I was curious since there were no events that day. The first picture on the link was from John Nilsson kneeling down and looking at this glider.



Oh, Oh – Someone did not have such a good flying day after all.

According to John, he suffered a so called "*brain failure*" (I prefer to call them a "life's moment") when he discovered that he was dropping like a stone and falling behind the tree line just to the east of the flight line at Davis Field. He thought he could turn and cut through the narrow notch, but he misjudged the distance.



John enlisted the help of Lloyd Keyes from Wayland (508)-358-9197.



After gearing up, Lloyd climbed a very skinny tree well over 50 ft high. Next is se sequence showing Lloyd's climbing skills.



Once he reached the plane he did a great job lowering it down. Only damage was a few dings to the leading edge



- John Nilssen, Dick Roy, Tom Stammberger

UPCOMING CRRC EVENTS

December 9, 2009

CRRC – GENEAL CLUB MEETING

7:30p Goodnow Librbary, Sudbury, MA

December 15, 2009

CRRC – BOD MEETING

7:30p Goodnow Librbary, Sudbury, MA

January 1, 2010

CRRC – 2010 Frozen finger Fun Fly

9:04 a – Until you freeze, Bill Martin Field

CRRC 2009 RC Auction

The 2009 CRRC Auction was a great success. It all started around 10:00 a.m. on November 15th when event coordinator Ken Antonellis and his wife arrived to the Natick VFW.



It wasn't long before other CRRC volunteers arrived to help setup the room.



Linda, Ruane's girlfriend managed the admissions booth. There were 121 paid admissions.



By 11:00 a.m. people started to walk in with their merchandise and began looking for spots to display their airplanes.



Some, like Ruane, actually setup a sales booth.



Several of us agreed that this year we had the largest crowd. The meeting hall and parking area were pretty much at their capacity.



Yes, there was a RC sailboat for sale.



Kathy, Ken's wife provided the delicious hot dogs and refreshments.



Fritz and Lincoln did excellent team work as auctioneers.



Tom Bauer and John Nilssen made sure the 10% share for the club was collected.



We had a record sale in raffle tickets. Despite having bought 30 tickets there were a few people

that had purchased twice as many. There was definitely some competition for the RDS8000.



Also thanks to many CRRC'ers who helped.



Dick W., Tony and Jeremy



Tom B. and Dick R.



Thank you Ken for coordinating this great event!



- Thomas Stammberger

CRRC BUILDING AND FLIGHT INSTRUCTORS

To start your flight instruction; please call our chief instructor:

Brian Rickman
774-249-2494

Brian will match you with one club instructors. Our instructors are qualified and willing AMA pilots and fellow club members.

See <http://www.charlesriverrc.org> for directions to the flying fields. If you have any questions about the construction of your airplane, or want to have an experienced pilot pre-flight check your airplane before heading to the flying field, then call Brian or any of the building instructors.

Name	Town	Phone	Building	Glider	Electric	Fuel	Helicopter
Dick Williamson	Sudbury	978 618-5475	Yes	Yes	Yes		
Fritz Bien	Concord	978 369-1720	Yes	Yes	Yes		
Tom Bauer	Wellesley	781 235-7344	Yes	Yes	Yes		
Brian Rickman	Marlborough	774 249-2494	Yes		Yes		
Derick Veliz	Acton	978 337-7867	Yes		Yes		
John Weigel	Natick	508 655-2138	Yes				
Richard Gammon	West Boylston	508 835-2049	Yes	Yes	Yes	Yes	
Ken Antonellis	Natick	508 653-8369		Yes	Yes	Yes	
Bruce Schneider	Hudson	978 562-9900		Yes	Yes		
Lincoln Ross	Littleton	978 800-0608		Yes	Yes		
John Nilsson	Clinton	978 368-7136		Yes			
Dave Walter	Hudson	978 562-5400		Yes			
Tom Stammberger	Winchester	617 501-7403			Yes		
Jon Leehey	Wayland	508 358-5721				Yes	
Tony Davids	Stow	978 568-9598					Yes

TREE CLIMBERS, KEYS, MEMBERSHIP & BOARD MEETING

TREE CLIMBERS

Loyd Keyes: [Wayland]
508-358-9197 or 508-341-0110

Paul Harrington [Medfield]
508-376-2573

Monkey Man [Marlboro]
508-215-4290

Scott: 508-203-3845 [Sudbury]

Tony Morais
A1 Tree Services [Framingham]
508-626-0088 or 800-657-7788

Editors Note: If you know of any tree climbers or tree services, please send contact information to the Newsletter Editor

Keys to the Bill Martin Field

To get a Key for Bill Martin Field in Medfield please email Ken Antonellis at [kxa\(at\)verizon.net](mailto:kxa(at)verizon.net). Ken

is the key-master. He will send out instructions as soon as he hears from you. A \$5 deposit is required the first time you receive a key.

MEMBERSHIP

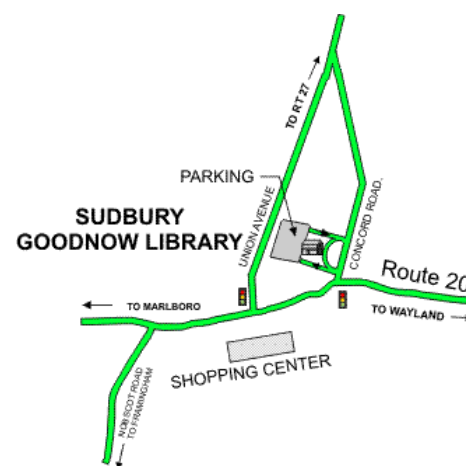
Here are the updated CRRC membership figures. The table summarizes the membership status from 2000 through current month, 2009.

Year	Renewals	New Members	Peak Totals
2000	112	62	174
2001	124	50	174
2002	138	58	196
2003	156	40	196
2004	153	42	195
2005	144	20	164
2006	124	26	150
2007	132	32	164
2008	100	23	123
2009	90	28	118
2010			

-Ray Harlan
Membership Secretary

THIS MONTH'S DIRECTOR'S MEETING

The next directors meeting will be, Tuesday, December 15th at 7:30 PM, at the Sudbury Goodnow Library. All club members are invited to attend. Please volunteer to attend at the next club meeting.





THE CHARLES RIVER RADIO CONTROLLERS, INC

2010 MEMBERSHIP APPLICATION

AMA Charter 339

Name _____ AMA No. _____

Street _____ Birth Date (AMA req'd) _____

Town _____ State _____ Zip _____ Tel. () _____ - _____

E-mail _____

IMPORTANT: You must be an AMA member in order to receive your CRRC membership card.

To receive membership card and field pass, bring this application to a club meeting, or mail to the membership secretary (address below). You can pay by check or use PayPal.

(PayPal to [membership\(at\)charlesriverrc.org](mailto:membership(at)charlesriverrc.org))

Please make check payable to:

Charles River RC

Ray Harlan
Membership Secretary CRRC
15 Happy Hollow Road
Wayland, MA 01778
508-358-4013

E-mail: [membership\(at\)charlesriverrc.org](mailto:membership(at)charlesriverrc.org)

SAVE \$5 - EARLY BIRD DUES RATES ARE LISTED

	MEMBERSHIP CATAGORY	On or before Mar 1, 2010	After Mar 1, 2010
☐	OPEN Member	\$40.00	\$45.00
☐	JUNIOR member, (Under 19 before Jul. 1)	\$10.00	\$10.00
☐	SENIOR member, (If age 60 before Jul. 1)	\$30.00	\$35.00
☐	SENIOR member, (If age 75 before Jul. 1)	Free if AMA member	Free if AMA member
☐	Full time STUDENT	\$20.00	\$25.00
☐	Family member additional to OPEN membership	\$20.00	\$25.00

Please chose from the options below:

- ☐ DO NOT include my personal contact information in the club phone book
- ☐ Send Newsletter via US Mail.

Help reduce operating costs by downloading the newsletter on line. CRRC pays roughly \$20 per year for each mailed newsletter subscription

NOTICE: THIS MONTH CRRC CLUB MEETING

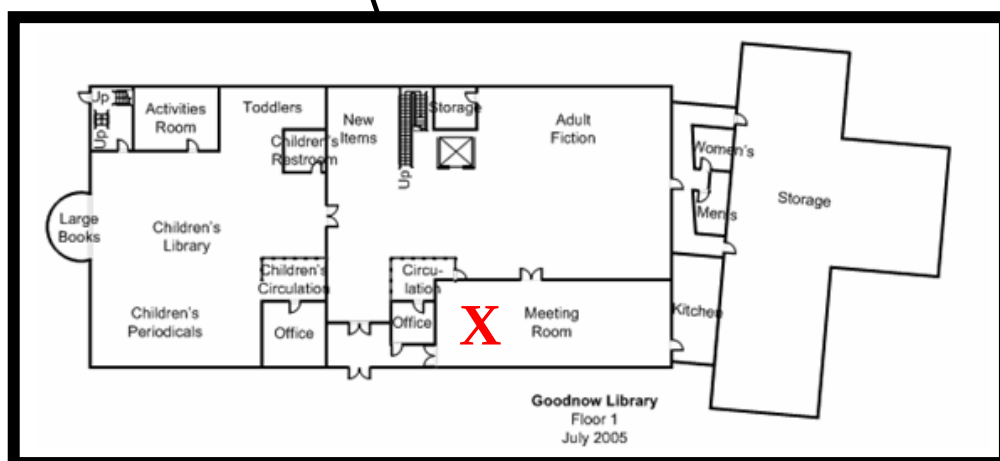
Guests are welcome!

When: *Wednesday December 9th, 2009 (2nd Wednesday)*
Note: Check for the meeting announcement in our monthly Newsletter.

Time: *7:30 p.m.*

Where: *Goodnow Library in Sudbury, MA*
21 Concord Road
Sudbury, MA 01776

Directions: *0.1 miles on Concord Rd off RT 20 in Sudbury.*



Thomas Stammberger
Newsletter Editor
Newsletter(at)charlesriverrc.org
(617) 501-7403

