

Nashua Area Radio Club Bulletin



See you at our next meeting!
March 5, 2007, 7PM
 Nashua Public Library

New ARES Appointments

Last November, Section Manager Sterling Eanes, AK1K, appointed a new Section Emergency Coordinator (SEC) for New Hampshire. Our new SEC is Tom Richardson, AB1CL, who has also been serving as Affiliated Club Coordinator for the section. Tom has long experience in emergency management as a Fire Chief in the seacoast area, and has already started re-energizing the Amateur Radio Emergency Service (ARES) in New Hampshire.

Locally, Tom has appointed Jim Blaine, WD4JZO, as Emergency Coordinator (EC) for Hillsborough County, to fill the shoes of long-time EC Don Dillaby, KA1GOZ. Jim has long been active in ARES, and recently has served as SKYWARN Coordinator for Hillsborough County. Jim, in turn, has appointed Scott Reynolds, KC2JCB, as the new Skywarn Coordinator, and Mark Slater, KB1DFE, as liason with MARS and instructor for new digital modes such as Winlink 2000.

ARES | Page 6

Upcoming events ...

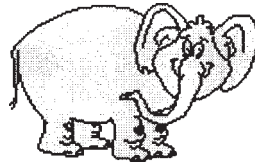
- Feb. 5 7 PM – Club meeting:**
Member Projects
 Nashua Public Library
 East Wing
- Feb. 9-11 NH QSO Party**
0000Z Feb 10 (7 PM Fri)
to 2359Z Feb 11
 Help put N1FD on the air!
 Arrange with Ed, K2TE
- Mar. 5 7 PM – Club meeting:**
Mountain Hiking
 Dave Smith, KA1THZ
 Nashua Public Library

This month . . .	
New ARES Appointments	1, 6
Monthly Treasurer's Report	1
Tiny Elephant	2, 3
Board Meeting Minutes	3
Badge Order Form	3
Year 2006 Treasurer's Report	4
Would that tree hit our house?	5
Exam List	6
Club Info & Calendar	7
Membership Application Form	8

Treasurer's Report	
December 4, 2006 to January 8, 2007	
Beginning Balance: December 4, 2006	\$3,958.88
Receipts	
Badge	
Christmas Dinner	\$125.00
Field Day Hats	\$10.00
Memberships	\$40.00
Total Receipts	\$175.00
Disbursements	
Christmas Dinner	(\$400.00)
NH QSO Party	
Plaque Contribution	(\$10.00)
Newsletter Postage (Dec)	(\$18.33)
Newletter Printing (Dec)	(\$34.50)
Treasurer Postage (\$9.99)	
and Duplicate Key (\$1.35)	(\$11.34)
Total Disbursements:	(\$474.17)
Ending Balance: January 8, 2007	\$3,659.71

Tiny Elephant's Contest Corner

The Latest Contest news -
A NARC Bulletin Exclusive
A monthly column by Ed Deichler, K2TE



NE Division Cabinet Meeting

This past month Sterling, AK1K, and I attended the New England Division Cabinet meeting held at the Sheraton in Framingham, MA. I had attended the same meeting last year and found it to be a worthwhile opportunity to have eyeballs with other club leaders, regional emergency coordinators, and SCMs from the New England area. Tom, K1KI, NE regional director for the ARRL, and vice director Mike, K1TWF, hold these meetings to gauge the hot buttons, successes, failures, etc. that the ham populace of the region is concerned about. They take the ideas (and frustrations) that come from the meeting and raise them before the national board meeting at the end of the month. What comes out that meeting we will see in QST a few months down the road, or on the ARRL home page a few days after the meeting.

The big news item of the session was the November band reallocation announcement from the FCC that added 25 kHz to the 40-meter SSB sub-band (down to 7125 kHz) and significantly expanded the 80-meter SSB segment down to 3600 kHz. It turns out the FCC had to do a refinement in December because they stepped on the digital services located on the low end of the realigned 80-meter SSB region. (What else is new?) There are also changes to the rules for 10-meter amplifiers that had dictated design restrictions for amateur amplifiers to prevent modification for CB use.

The other big news item that goes hand-in-hand with the realignment – the FCC dropped the Morse code requirement as a condition of getting an amateur radio license. The move was inevitable since Europe had dropped the requirement several months ago. Based on the comments from others in the room, it was

a welcomed change that removes a barrier to many amateurs from advancing their licenses. The ARRL is already seeing a surge in requests for licensing material to study for upgrading. The new requirements become official once they are published in the Federal Register, which had not happened as of the 6 January meeting date.

Here are some of the subjects we covered as cobbled together from my notes and the meeting minutes:

ARRL & the FCC:

Concern raised regarding the antagonistic atmosphere that seems to exist between the ARRL and the FCC as evident by the recent lawsuit filing by the ARRL concerning BPL. For a long time, the ARRL has often been the only party providing technical input on radio issues in response to Requests for Comment issued by the FCC. Over the years, the FCC has become less inclined to objectively evaluate ARRL inputs & comments. The resulting edgy atmosphere makes it difficult to coordinate with the FCC to help move less critical items (e.g., band plan re-mapping) forward.

BPL:

Tom provided an update on BPL test rollouts that have been a pin in ham radio's coax for a while now. There is some activity going on in Oxford county, ME & in the Concord, MA area. The town of Concord has a locally owned power company that is looking to augment its income by providing BPL service. The idea does not make sense because Concord is an affluent suburban area where most homes already have high-speed services. A site in Agawam, MA no longer seems to be in service. The Manassas, VA BPL operation that has been highly publicized in amateur

radio's complaints is not going well for amateurs. The FCC has closed further consideration of complains. The focus of the ARRL's BPL suit is in two areas: (1) the FCC's erroneous understanding of the technical details of the test data, and (2) the FCC's arbitrary definition that a 20 dB notch filter is sufficient for mitigating interference to any mobile radio service, i.e. not just ham radio.

The latter point prompted a number of comments that amateur radio needs some allies. It was suggested that equipment manufacturers be encouraged to provide support/muscle to influence FCC because of their commercial interests at stake. The mobile radio market is larger than amateur radio so rulings that are seriously detrimental to licensed radio services directly hit their pocketbook. Another suggestion was to hammer state reps and senators with ham radio issues to raise their level of consciousness. This approach may have some leverage because Congress is annoyed with the FCC for acting outside of its authority on some issues.

Emergency Support to Local Authorities: It was reported that local police and fire organizations in large metropolitan areas view hams as a threat to their jobs. This perception is likely due to misinformation on the part of unions that represent police and fire employees. Hams need to work with them to show we are there to augment them for emergencies, not replace them. We only do communications support and health and welfare traffic; few of us are EMTs or trained for life-threatening situations. Another area of concern: FEMA's bad image is making it difficult to develop coordinated emergency response plans.

Hams & the public:

The recent relaxation of the Morse code requirement is expected to lead to an upsurge in Techs and Generals upgrading for full band privileges. Some thoughts how amateur radio can get back into the public's stream of consciousness: Focus on ways to integrate ham radio into today's technologies that relate to kids, such as teaming with robotics groups.

Tiny Elephant

CONTINUED FROM | Page 2

Re-introduce RF technology in EE programs that seem focused on computer science too much. This is important commercially because of WiFi and other emerging wireless technologies. Establish collaboration between AMSAT & universities to share interests in satellite technology and experimentation. Show how ham radio has integrated computer technology (e.g., VOIP). Amateur radio needs to be viewed as part of an overall system; no longer the unique component it has been for decades. Keep CW alive as a niche component of the hobby, aimed at groups such as scouts.

Issues for the Board Meeting:

Tom shared some of the items that will be on the agenda for the annual ARRL board meeting. One of them is actually a nice problem to have – the number of new hams that we can expect with the rule changes. As with any organization, finances and income are always a concern. Income from membership renewals, advertising and publications has been flat. Donations to the ARRL are up which is not a surprise given the aging population of amateurs in the country. The League has a sizable core of life memberships that it feels have not seen a lot of benefits so there is consideration of other perks such as discounts on publications.

Public Service Announcements:

Alan, W1AGP, the ARRL's public information officer, is planning a 2007 release of his "Swiss Army Knife" for club PIOs and PICs. The CD will incorporate suggestions made by the regional cabinet groups. The CD features a wealth of information about ham radio public relations and is expected to be out in mid to late February. The place to hear about it first is the ARRL PR reflector (info: <http://www.arrl.org/pio/#itnreflect>).



NARC Club Badge Order Form

Please print your First Name and Callsign as you would like it to appear on the badge:

Price: \$5.00 each

Send (or give) to: Treasurer, Nashua Area Radio Club
P. O. Box 248
Nashua, NH 03061

Please make checks payable to: Nashua Area Radio Club

Badges will be mailed.

Minutes of the Board of Directors Meeting — January 2, 2007

Jack Duffy, KE1HS

Attendees: President, Ed Deichler (K2TE); Secretary, Jack Duffy (KE1HS); Treasurer, Bill Bordy (NJ1H) was unable to attend; Activities Director, Bill Hammond (KA1SSR); Membership Director, Stuart Sherman (N1STY); Newsletter publisher, Bill Noyce (AB1AV).

Location: The November Board Meeting was held in the East Wing of the Nashua Public Library.

Demise of Morse Code: Dave Brooks of "The Telegraph" joined the meeting to discuss the FCC's action of removing the requirement of knowing Morse Code as a license requirement.

President: The president will attend the New England Division Cabinet meeting at Framingham on January 6th. This meeting serves as information sharing within the division and as a source of input to the ARRL Board. Field Day 2007, we may have to pay a fee to use Hollis facilities. Wasserman Park is a backup position.

Tentative Club Schedule for 2007:

January	Project Night
February	Rotator Systems (Ed, K2TE)
March	Mountain Hiking (Dave, KA1THZ)
April	Care and feeding of Antique Radios (Gene, K1NR)
May	N1MM Logger Program (Ed, K2TE)
June	Field Day Plans
July	Field Day Wrap
August	WOKQ visit?
September	SDR revisited (Bill, NJ1H, Sterling, AK1K?)

A suggestion was made to ask Don Dillaby (KA1GOZ) if he would make a presentation on ARES/RACES.

Treasurer: Bill sent an email to the Board and Newsletter containing an Excel spreadsheet with the club's 2006 records. He also stated that our balance is \$3659.71.

Club meetings: We need a place for the January 8th meeting Hollis is also not available, at worst we can cancel.

Activities: Pizza this week is at Sal's on East Hollis Street.

Membership: We have 58 paid/life members and 14 that have not renewed.

Adjournment: Having no further business, the Board Meeting adjourned at 8:45 PM.

Treasurer's Report

For Period from January 1, 2006 to December 31, 2006

Beginning Balance, January 1, 2006 **\$2,340.96**

Receipts

Addition of Petty Cash Not Accounted for on 1/1/2	\$11.00
Badges	\$10.00
Christmas Dinner	\$400.00
Field Day Meals	\$396.00
Field Day Hats	\$330.00
Donations	\$1,758.47
Membership	\$1,175.00

Total Receipts **\$4,080.47**

Disbursements

Badges Fabrication	(\$6.00)
Christmas Dinner	(\$400.00)
Domain Registration for 3 years	(\$27.60)
Equipment	(\$296.06)
Field Day Expenses	(\$285.57)
Field Day Meals	(\$400.00)
Field Day Hats	(\$328.84)
Insurance	(\$325.00)
Marketing Campaigns	(\$10.00)
N1FD 10 year Vanity Call License Renewal	(\$28.90)
Newsletter Postage	(\$160.68)
Newsletter Printing	(\$348.60)
NH QSO Party Plaque Contribution	(\$10.00)
P.O. Box Fee	(\$74.00)
Shipping & Sales Costs of Donated Equipment	(\$39.13)
Treasurer Postage (\$9.99) and Duplicate Key (\$1.	(\$11.34)
W1 QSL Bureau	(\$10.00)

Total Disbursements: **(\$2,761.72)**

Ending Balance, December 31, 2006 **\$3,659.71**

Would that tree hit our house if it falls?...

Jack Warren, WB4MDC

That was the question my wife, Mary Jane asked while looking out of the kitchen window during the recent ice storm. Many years ago, I attached the far end of the clothes line to a tree located in the woods behind the house. During the ice storm, the clothes line became covered with ice and was sagging like other "lines" (feed and guy) on the property. The tree (now dead after all these years) was being pulled toward the house. A quick estimate gave me the answer; "I hope not!". That was reassuring!?!?

What an answer. I knew I could do better than that. Fortunately the tree didn't fall, so I had a chance to do some measuring and some calculating the following Saturday. I waited until the sun was shining, counted the number of paces from the base of the tree to the end of the shadow of the top of the tree, did some calculating and voila, it would (probably) miss our deck by about fifteen feet.

After thinking about what I had just done, I thought, ("Wow, I can use this technique to find the right tree for my new dipole...").

So, here's what I did. I prepared for my visit to the woods by accumulating two sticks and a measuring tape. I waited until the sun was up, nice and bright, and then went into the woods to

find the end of the shadow cast by the top of the tree. I began walking from the trunk of the tree, following the tree's shadow, counting steps as I went. Once I reached the end of the shadow, I pushed one of the sticks into the (not yet frozen) ground. I quickly began setting up to measure the sun's angle above the horizon right NOW. I leaned one end of the remaining stick on the ground. I pointed the stick at the sun and moved the other end of the stick around until it cast the smallest shadow possible. I measured the distance from that end of the stick to the ground directly below. Now I had all the information I needed to set about calculating the tree's height.

For those of you whose attention span is good enough to get this far, I'll go through the math. And for those of you who understand trigonometry, I'll let the solution be an exercise for the reader. For the rest of us, I'll document the math.

The first stick isn't REALLY necessary, but it allows re-verification of the number of "paces" I counted. My pace probably varies with my sense of cold, so with the stick in the ground, I can go back later... As for the other stick, I know from trig that the length of the stick can represent the hypotenuse (H) of a right triangle. The distance measured with the tape is the opposite (O) side for the angle between the stick and the ground. So using O/H, I found the sine value of the angle between the stick and the ground. My stick was 48" long and the end of it was 20" above the ground, so the angle whose sine is 0.4167 is 24.63 degrees. With this angle, I had enough to calculate the height of the tree.

I found the height of the tree using trig's tangent function, O/A. The distance between the tree and my first stick is the adjacent (A) side of the angle between the second stick and the ground. The 'O' in the tangent function is the unknown height of the tree. I determined the tangent of 24.63 degrees (the angle calculated above) to be 0.4585. When I multiplied this number by the length of the adjacent side, I got the height of the tree, or 0.4585 X 38 paces = 17.4 paces.

Knowing that one of my paces is "precisely" 38", I converted "paces" to feet. I used paces X 38" to get (lots of) inches, then divided those inches by 12 to get feet. The result was 55.1' which is the height of my dead tree with the clothes line attached!!

After all of this, no, it won't hit the house. Fact is, it should miss the deck by about 15' and I won't be using it to support an antenna...

For those of you that got to the end of this, at our next meeting tell me what time of day it was when I made this measurement. Your answer should be within 10 minutes of my actual time.

While I was explaining this to Mary Jane, she looked at me, and with a grin on her face, asked, "So how tall is the tree in the dark?". I need an answer for that one too...

DE Jack, WB4MDC

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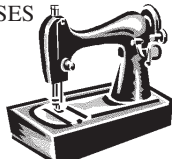
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**Deadline for the
March Bulletin
is Monday, February 12th, 2006**

Please contribute to the newsletter!

**Your articles, letters, and suggestions are
always welcome and appreciated. You can
email the editor at
newsletter@n1fd.org**

ARES

CONTINUED FROM | Page 1

East Rockingham County also has a new EC — Larry Inman, K1SRJ is replacing Steve Merrill, KB1DIG. And the EC for Strafford County, Kriss Kliegle, KA1GJU, has resigned as well.

Most of those resigning cited family and work commitments that don't leave time to participate as an ARES leader. Individual hams, on the other hand, can be valuable members of ARES without committing an undue amount of time. There's a weekly net on VHF that offers a chance to meet others interested in emergency service, and to practice operating the way we would if our services were needed. (ARES nets are listed on page 7 of this newsletter.)

The old roster of ARES members has not been maintained for a while, so it lists many who are no longer involved, and omits many who are. If you wish to contribute to emergency communication services, sign up on the web at <<http://ares.arrlnh.org/Members/ares-app1.htm>>. It's a great way of giving something back to our communities!

— Bill, AB1AV

FOR SALE:

Kenwood TM-221A
2 meter, complete, with service manual. \$50.00
KE1HS, 882-2085

The February KY1N Memorial Exam List

Scheduled VE exams for February, 2007, MA ME NH VT
Please check with contact person, as some dates are tentative

Date	Time	Contact	Location	Phone
02/03/07	10:30	Larry Houbre, AA1FS	Dartmouth MA	508-991-6055
02/03/07	10:30	Ron Manson, W1SSF	Winslow ME	207-873-2071
02/09/07	18:30	Ralph T Stetson III, KD1R	Burlington VT	802-878-6454
02/10/07	09:00	Ben Fleck, K2LYE	Falmouth MA	508-540-2583
02/10/07	10:00	Bryce Rumery, K1GAX	Topsham ME	207-799-1116
02/11/07	12:00	Bob Quinn, WV1A	Gloucester MA	978-283-4660
02/12/07	19:00	Dick Doherty, KA1TUZ	Brookline MA	617-527-2968
02/14/07	19:30	Bruce Anderson, W1LUS	Chelmsford MA	978-851-2886
02/15/07	19:30	Louis Harris, N1UEC	Norwood MA	508-668-0858
02/16/07	18:30	Albert Noble, AA1CZ	Saco ME	207-642-8830
02/17/07	09:00	Bill Wade, K1IJ	Marlborough MA	617-699-3670
02/19/07	19:00	Arthur Denault, KB1CNB	Fall River MA	774-644-3469
02/19/07	19:00 *	Francis D'auria, W1AD	Rutland VT	802-775-3033
02/21/07	19:30	Nick Altenbernd, KA1MQX	Cambridge MA	617-253-3776
02/23/07	18:00	David Cote, WA1DC	Holyoke MA	413-575-2950
02/24/07	12:00 +	George Johnson, W1ZT	Danvers MA	978-927-7211
02/24/07	12:00	Mitch Stern, W1SJ	Milton VT	802-879-6589
02/24/07	09:00	Jim Heedles, WW1Y	Nashua NH	603-673-7395
02/26/07	19:00	Walton G Congdon, W1ZPB	Northfield MA	413-498-2729
02/28/07	19:00 *	Paul Upham, KD1YH	Shirley MA	978-597-6535
03/03/07	10:30	Larry Houbre, AA1FS	Dartmouth MA	508-991-6055
03/09/07	18:30	Ralph T Stetson III, KD1R	Burlington VT	802-878-6454
03/10/07	08:45	William J Needham, K1WN	Braintree MA	781-843-4400
03/10/07	09:00	Ben Fleck, K2LYE	Falmouth MA	508-540-2583
03/11/07	12:00	Bob Quinn, WV1A	Gloucester MA	978-283-4660
03/12/07	19:00	Dick Doherty, KA1TUZ	Brookline MA	617-527-2968
03/14/07	19:30	Bruce Anderson, W1LUS	Chelmsford MA	978-851-2886
03/14/07	19:30 *	James Weckback, W1EQW	Framingham MA	508-435-6487
03/15/07	19:30	Louis Harris, N1UEC	Norwood MA	508-668-0858

NOTES: * = PREREGISTRATION MANDATORY T=Technician Exams only
+ = PLEASE CALL TO GUARANTEE SEATING Times are Local Times

Please remember to bring the following with you:

- Orig. & copy FCC license (if licensed)
- Original and copies of all CSCE's you are claiming
- One photo ID, or two non-photo ID's (one with address)
- The 2006 Test Session fee of \$14.00

For the latest update check <http://www.ky1n.net/ky1n.html>



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was founded in Nashua, NH on October 3rd, 1979, in order to operate a non-profit corporation for educational and scientific purposes as follows:

- 1) To educate and increase the proficiency of its members in the science of radio communication.
- 2) To provide for the dissemination of information among its members concerning scientific advancement and progress in the field of radio communication.
- 3) To organize and train units of licensed radio amateurs capable of maintaining radio communication as a public service during periods of emergency.

Executive Board – 2007:

President	Ed Deichler, K2TE	(603)429-0221, pres@n1fd.org
Vice President	--OPEN--	[vp@n1fd.org]
Secretary	Jack Duffy, KE1HS	(603)882-2085, secy@n1fd.org
Treasurer	Bill Bordy, NJ1H	(603)882-3789, tres@n1fd.org
Activities	Bill Hammond, KA1SSR	(603-595-2403, activities@n1fd.org
Membership	Stu Sherman, N1STY	(603)878-4808, membership@n1fd.org
Programs	--OPEN--	[programs@n1fd.org]

Activities & Committees – 2006 & 2007:

QSL Manager	Ed Deichler, K2TE	(603)429-0221
Field Day	Rich Carter, KE1EV	(603)889-2459 fdic@n1fd.org
Station Trustee	Ed Deichler, K2TE	(603)429-0221
Club Property	Dave Bodman, KD4CLJ	
Training	Dave Murphy, KB1LKE	(603)883-5943
Training Asst.	Rich Carter, KE1EV	(603)889-2459
EC Liaison	Sterling Eanes, AK1K	(603)465-2277
Audit Committee	Jack Warren, WB4MDC	(603)429-1137
	Dave Banks, N1SUE	(978)433-8104
Volunteer Exams	Jim Heedles, WW1Y	(603)673-7395

Nashua Area Radio Club Internet Home Page: <http://www.n1fd.org>

WebMaster: **Lee Hill, WB1ADR**
Steven M. Santinelli, KB1GIT, narcweb@n1fd.org

NARC Board Mailing List: bod@n1fd.org

NARC General Members Mailing List : members@n1fd.org

ARES Emergency Coordinator for Hillsborough County:
Jim Blaine, WD4JZO, 603-889-4429, wd4jzo@arrl.net

ARRL: 1-800-32-NEWHAM or newham@arrl.org, www.hello-radio.org

Nashua Area Radio Club meetings are accessible for the physically challenged

NARC Calendar 2007

Board Meeting:

Monday, Feb. 26th, 7 PM - Nashua Public Library,
Monday, Mar. 26th, 7 PM 2 Court St., Nashua

Club Meeting:

Monday, Feb. 5th, 7 PM - Nashua Public Library,
Monday, Mar. 5th, 7 PM 2 Court St., Nashua

February Program:

Project Night – Bring something you've made!

Weekly Events:

Emergency Nets:

Tuesdays: 8:00 PM Hillsborough County 146.73 – PL88.5

Pizza:

Thursdays: 6:15 PM - Various locations - check 147.045

Breakfast:

Saturdays: 8:15 AM - Nathaniel's Restaurant,
537 Amherst Street (Rte 101A)

Nashua Area Radio Club Bulletin

Published by the Nashua Area Radio Club, Inc. just prior to its monthly meeting and distributed free to members and friends of Amateur Radio.

Bulletin Staff:

Editor:	Bill Noyce, AB1AV	(603)465-7396
	newsletter@n1fd.org	
Advertising:	Position Available	
Circulation:	Stu Sherman, N1STY	(603)878-4808

Deadline for submitting articles or photographs for the next issue is the Monday following the current month's Club meeting. Electronic submissions are preferred and should be sent via electronic mail to newsletter@n1fd.org. On-line images may also be sent electronically in any standard image file format. Material for publication can also be sent to Bill Noyce, 98 Pine Hill Rd., Hollis, NH 03049

Advertising enquiries should be addressed to P O Box 248, Nashua, NH 03061-0248 or by contacting any of our Board Members. Advertising matters must not be raised over the Amateur airwaves.

Nashua Area Radio Club Official Membership Application

<input type="checkbox"/> New Applicant:	Date Applying	<input type="checkbox"/> Regular	<input type="checkbox"/> Student/Sr. (Over 65)	<input type="checkbox"/> Family	<input type="checkbox"/> Renewal:	<input type="checkbox"/> Regular	<input type="checkbox"/> Student/Sr. (Over 65)	<input type="checkbox"/> Family
	<input type="checkbox"/> Sep-Nov	\$20.00	\$15.00	\$30.00		\$20.00	\$15.00	\$30.00
	<input type="checkbox"/> Dec-Feb	\$15.00	\$11.25	\$22.50				
	<input type="checkbox"/> Mar-May	\$10.00	\$ 7.50	\$15.00				
	<input type="checkbox"/> Jun-Aug	\$ 5.00	\$ 3.75	\$ 7.50				

Annual Dues - due September 1st of each year.
Membership year runs from September to August.

Name _____ Callsign _____ Class _____ Packet address _____

Address _____ City _____ State _____ Zip _____

Home Phone _____ Work Phone _____ Email address _____

Monthly Newsletter Mailing Preference Electronic US Mail ARRL Member yes no Expiration date _____

Additional Family members:

Name/Callsign _____ ARRL Member yes no Exp. _____ Email address _____

Name/Callsign _____ ARRL Member yes no Exp. _____ Email address _____

Make checks payable to: The Nashua Area Radio Club. Mail check and application to: Membership, Nashua Area Radio Club, PO Box 248, Nashua, NH 03061.

In signing this application, I hereby apply for membership in the Nashua Area Radio Club, and agree to abide by its constitution and by-laws.

Signature _____ Date _____

*Tour the World with Amateur Radio
Next meeting March 5th, 2007, 7PM - Nashua Public Library*

**Nashua Area Radio Club
P. O. Box 248
Nashua, NH 03061-0248**