



ABOUT US

NIAR is a Non-Profit, Non-Government Voluntary Organization emphasizing on encouraging peoples' participation in communication and information technology through Amateur Radio and disaster management.

OUR VISION

To build a world-class institution to support advancement of global Amateur Radio activity in terms of promotion, training, advocacy, technical support, knowledge repository and research, exceed the expectations with commitment, quality and excellent service.

PROGRAMS

- Training / Awareness
- Disaster Management
- Support for Organisations
- Technical Support
- QSL Bureau
- Knowledge repository
- Comprehensive consultancy
- Demonstrations
- Supports government in Policy making.

JOIN US

Yahoo groups, go to
<http://groups.yahoo.com/subscribe/niarindia>
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http://www.niar.org/join_races.htm
 Become NIAR member, go to
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 Visit Amateur Radio Museum, Knowledge & Awareness centre, go to
<http://www.niar.org/museum.htm>

National Workshop on Amateur Radio Communication and Computer Networks in Education



National Workshop on Amateur Radio Communication and Computer Networks in Education was conducted by Miroslav Skoric, YT7MPB, Faculty of Technical Sciences, University of Novi Sad, Serbia at Trivandru, Bangalore and Udaipur in October 2012.

The workshop was conducted at Indian Institute of Information Technology & Management, Techno Park, Trivandrum on 10th October 2012 which was attended by about 100 students. Mr. S. Ram Mohan, VU2MYH, Director NIAR & Mr. José Jacob, Asst Director participated in the event which was also attended by local hams Mr. Girish Babu, VU2KGB, CEO of Techno Park, Mr. Jayan VU2JYU, Mr. K.G. Nadarajan VU2KGN, Mr. Khader VU2MF, etc. The event was coordinated by Dr. Sabu M. Thampi. NIAR gave technical support to the event.



A similar workshop was conducted on 17 & 18 Oct 2012 by Miroslav Skoric at Techno India NJAR Institute of Technology, Udaipur. Mr. S. Ram Mohan, VU2MY gave practical demonstration of Amateur Radio digital communications which was attended by several students from Udaipur and Delhi. Mr. Piyush Javeria coordinated the event.



Visit of UN7EY to NIAR



Mr. Batyr Zhulamanov, UN7EY of Kazakhstan visited NIAR on 4 Oct 2012 and interacted with NIAR staff members. He is Russian /English translator who came for the COP II summit held at Hyderabad.

Amateur Radio Demonstration at “Tathva 12” at NIT, Calicut



NIAR put up an Amateur Radio demo stall at “Tathva 12” Exhibition during 19 to 21 October 2012 at National Institute of Technology, Calicut with the cooperation of Malabar Amateur Radio Disaster Communication Club which was visited by hundreds of students and others. Mr. Jose Jacob from NIAR and other local hams Mr. Ashraf VU2MTY, Mr. Sunil VU2ATB, Dr. Abraham, VU2OJ and Sanil VU3SIO interacted with the visitors. The event was coordinated by Dr. Sunil Jacob John, Associate Professor, Dept of Mathematics, NIT, Calicut.

HAM RADIO IN SPACE:

200 MICRO HAM BIRDS TO BE LAUNCHED IN ONE MISSION

Two hundred tiny ham radio satellites will be going into space in the not to distant future. The project is called KickSat and we have more in this report.

KickSat is an amateur radio CubeSat technology mission designed to demonstrate the deployment and operation of prototype Sprite or tiny ChipSats developed at Cornell University. The KickSat spaceframe is a CubeSat being built to carry and deploy 200 Sprites that will provide an avionics bus that will provide power, communications, command and data handling functions. It will be mated with a 2 unit deployer that has been developed to house the Sprites.

Approximately 200 Sprites will be stacked atop a spring-loaded pusher and secured by a nichrome burn wire system. Once on-orbit, the wire burns away the Sprites will spring out into space.

As to the Sprites, these are tiny spacecraft that includes power, sensor, and communication systems. Its built on a printed circuit board measuring 3.5 by 3.5 cm with a thickness of 2.5 mm and a mass of about 5 grams. The Sprite is intended as a general purpose sensor platform for micro-electro-mechanical or other chip-scale

sensors with the ability to downlink data to ground stations from Low Earth Orbit.

After deployment, telemetry and sensor measurements from the individual Sprites will be received through Cornell's ground station in Ithaca, New York, as well as several other amateur radio ground stations around the world. The Sprites are expected to re-enter the atmosphere and burn up within a few days or weeks depending on atmospheric conditions. Their best case maximum orbital lifetime is estimated at 6 weeks.

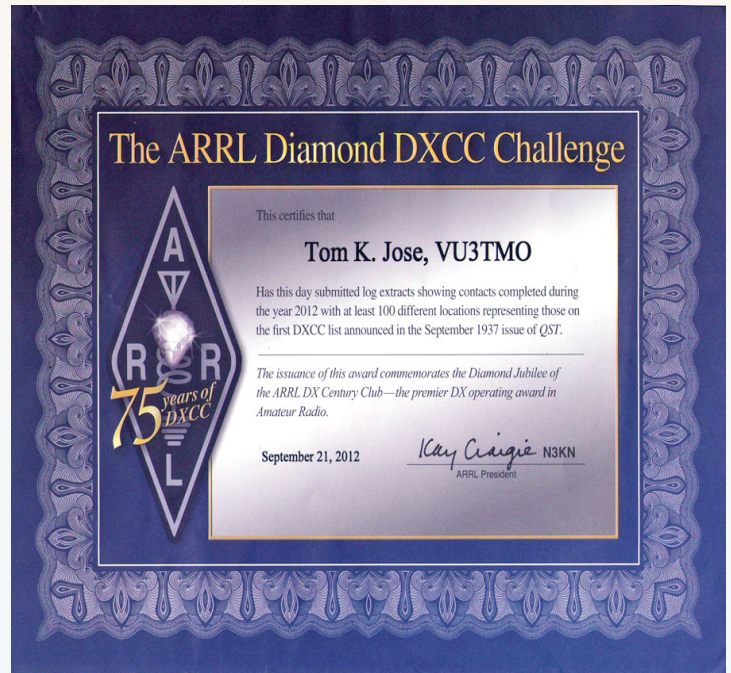
The development team is currently investigating uses for the KickSat spaceframe after the Sprite deployment and is seeking collaborators who could make use of its capabilities as part of another extended mission.

ChipSats like these Sprites represent a new technology that will both open space access to hobbyists and students and enable new types of science missions. A significant portion of KickSat has been financed by over 300 individual sponsors through a funding website. More is on-line at www.spacecraftresearch.com/KickSat. (KickSat)

14 year old Master Tom K. Jose, VU3TMO receives ARRL Diamond DXCC challenge certificate from USA

ہندوستان 20 اکتوبر 2012

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Meet one on the youngest hams in India, Tom, VU3TMO.who got his Amateur Radio licence in 2011 when he was 13 years old, studying in 8th class at Fr. Roch Memorial High School, Khairatabad. He is a 3rd generation ham. His parents are Lissy VU3LMS and Jose, VU2JOS. His Grandfather is K.V.Cheeku, VU2ACN and his elder brother is Tony, VU3TNI. His many other relatives are also hams.

He grew up watching amateur radio operated by his parents and naturally became interested in it. He attended Amateur Radio classes at NIAR, Hyderabad and got his licence after one year.

He operates from NIAR club station usually in the evenings and on holidays and when there were no exams. During 2012 he made about 1500 contacts from 110 countries in voice. He struggled hard to contact the foreign stations during early mornings, mid night etc.

During 2012, he received the prestigious "Diamond DXCC Challenge" Award issued by American Radio Relay League (ARRL) for communicating with 100 countries during the calendar year. ARRL also published his photo and details in their web site as a young ham to make the achievement. The local media also covered his activities. He also takes part in DX contests and has received many awards.

He is a member of NIAR and Dayton Amateur Radio Association (USA)



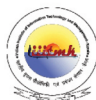
One day Workshop on

"Amateur Radio Communications and Computer Networks in Education"

October 10, 2012 (9.00am – 5.00pm)

Venue

Indian Institute of Information Technology
and Management-Kerala (IIITM-K)
Technopark, Trivandrum
<http://www.iiitm.ac.in>



In association with

National Institute of Amateur
Radio, Hyderabad
<http://www.niar.org>



Amateur Radio

The amateur radio is an old fine hobby from the days of inventing the Morse alphabet and implementing telegraphy. Since the second half of the 19th century, millions of volunteers learned new skills in communications - while attending the amateur radio courses and successfully passed examinations; got their first radio licenses and started transmitting signals to the spectrum. The electronics industry recognized the incoming "flood" of the new communicating enthusiasts, coming from all over the world and predicted them to be a good market very soon. Today we have a lot of opportunities to purchase sophisticated and computerized amateur radio "gadgets" - that include fascinating traditional and brand new communication modes. Besides telegraphy and radio telephony, there are a variety of computer-related possibilities to explore. As a result, today the modern radio amateurs are capable to establish exciting radio paths via Moon or artificial satellites, conducting short discussions with crews on the space ships, even to make an urgent search for medicines - using their computers. This workshop intends to give more instructions on how to start with the amateur radio and how to use both radio and computer technology for the same purpose.

Abstract

The workshop begins with introductory information about the amateur radio communications and continues with studying one of the most popular computer-related radio communication modes: the VHF/UHF and HF "packet-radio". The tutorial discusses (with examples) on how to choose inexpensive hardware and software needed for establishing the amateur radio links from either home or work. The tutorial explains step-by-step how to build an AMUNET - the Amateur Radio University Network - a grid of radio stations within or between universities' campuses and surrounding schools, including an opportunity to become a low-cost solution for communicating in educational institutions in rural areas and developing countries.



Instructor: Miroslav "Misko" Skorik, Faculty of Technical Sciences, University of Novi Sad, Serbia

The instructor has 20 years of experience in computer network administration and system maintenance and 20+ years of practice in the amateur radio. Skorik has been maintaining various types of amateur radio bulletin board systems (MS DOS, Windows and Linux platforms) with VHF/HF radio frequency and Internet inputs/outputs in the local amateur radio union and clubs-societies. He voluntarily served as the information manager and union's secretary during the nineties. Teaching experience includes several classes in a local amateur radio clubs; technical paper presentations during domestic and international events; tutorials on the amateur radio in engineering education, one round-table session, two book chapters and several magazine/journal articles, as well as a dedicated web page <http://tldp.org/HOWTO/FBB.html> having a popular amateur radio software users' manual. The instructor's researching efforts include his graduate studies in Computer Sciences, as well as his membership in IEEE Computer Society, IEEE Communications Society, IEEE Education Society, ACM and IAENG.

What will the participants learn?

- What is the amateur radio, who are the radio amateurs, how to find and join them;
- What is needed to establish a simplest computer communication between two users;
- How to solve the problem of natural or artificial obstacle between two (or more) users;
- What are the advantages of communication with the amateur radio satellites;
- How to exchange an e-mail without an ISP connection or without a telephone;
- How to choose the proper modem, radio, antenna and computer;
- How to fight against potential amateur radio 'pirates' (hackers);
- What regulatory changes are needed to establish more amateur computer networks;
- What topics and questions belong to the new suggested ADL license's curricula;
- How to make the local AMUNET and how to link it to a neighboring one

Intended Audience

- IEEE, ACM, CSI student members (and other students as well)
- Teaching personnel of academia, high-grade and schools
- Authorities and institutions in developing countries and rural areas in general, humanitarian entities,
- scientific expeditions organizers etc;
- Local radio amateurs, local ham clubs and national radio union(s); non-for-profit societies, and other technical-related volunteers;
- Officials of ITU, WARC-WRC, agencies and ministries of communications, science and education;
- Businesses like civil engineering, road and train builders etc., Which can also build their own radio infrastructure and private networks - using the same or similar principles as the amateur packet-radio.

Registration

Fee: Full-Time Students: Rs. 100
Others: Rs. 200



Registration fee covers working lunch and coffee breaks.

Those interested in attending must register online at <http://www.snds-conference.org/radio-workshop.html> before September 30, 2012. The fee will be collected at the workshop venue on October 10, 2012.

About IIITM-K

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For more information,
Please contact

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NATIONAL WORKSHOP

on

Amateur Radio Communications and Computer Networks in Education

(NW-ARCCNE)-2012

17th-18th October, 2012



Organized By

Techno India NJR Institute of Technology,
Udaipur

In association with

National Institute of Amateur Radio,
Hyderabad

IEEE Computer Society India Council
And
IEEE Education Society Delhi Chapter

Supported by
TINJRI IEEE CS Student Branch

Venue

Techno India NJR Institute of Technology
Plot SPL-T, RIICO Industrial Area
Kaladwas,
UDAIPUR -313003

Book Post

PRINTED MATTER

If undelivered please return to:

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Printed and Published by the Editor on behalf of NIAR at Sri Vani Print & Pack, 7-1-282/C/44 & 55, Balkampet, Hyderabad-18. Ph : 040-3913 7551