

RADIONET3

WORKSHOP “OUTREACH FOR THE GENERAL PUBLIC”

DATE	12 February 2014	9-18 TIME
PLACE	Meeting at MPIfR, Bonn	
PARTICIPANTS	Silvia Casu, Roger Ferlet, Colomer Francisco, Fabrice Herpin, Mathieu Isidro, Norbert Junkes, Mikko Kotiranta, Franco Mantovani, Simon Nicolas, Markus Poessel, Izabela Rottmann, Cecilia Scorza, Matteo Stagni, Aukelien van den Poll, Stefania Varano (minutes), Eskil Varenius, Ulrike Wyputta.	
WEBPAGE	https://indico.mpifr-bonn.mpg.de/indico/conferenceDisplay.py?confId=76	
VERSION	Final (27.02.2014)	

ACTION ITEMS:

ITEM	SUBJECT	PERSON	DATUM
A1.	Exploring possible collaborations with other Networks/Projects/Organizations , in order to figure out what the contribution of RadioNet3 could be in each case.	S. Varano	March 31, 2014
A2.	Updating the status of the existing material , gathering the lacking pieces of information.	S. Varano	March 31, 2014
A3.	Opening a forum for the discussion upon the comic novel subject . All partners interested in the discussion should subscribe.	A. van den Poll All	March 7, 2014
A4.	Collecting ideas about the comic novel .	F. Colomer	March 25, 2014
A5.	Teleconference for discussing the ideas and proposals about the comic novel .	S. Varano All	March 31, 2014
A6.	Starting the production of the RadioNet3 Outreach and Education webpage .	A. van den Poll E. Varenus	March 31, 2014

AGENDA:

1. **9.00-9.30 Welcome**
Greetings (I. Rottmann, S. Varano, U. Wyputta)
2. **9.30 – 11.20 Project and Networks** (Chair: N. Junkes)
Invited talks about the status of outreach and educational activities within some International radio astronomical projects.
 - **9.30 – 9.50** UNawe Educational Activities (C. Scorza, Haus der Astronomie)
 - **9.50 – 10.10** EuHOU MW + Small Radio Telescopes (R. Ferlet, Institut d'Astrophysique de Paris)
 - **10.10 – 10.30** The educational and outreach activities of the Office of Astronomy for Development (OAD) of the IAU (C. Scorza)
 - **10.30 – 10.50** SKA Communications strategy: a mix of PR, PI, lobbying, outreach, education ...and a lot of fun! (W. Garnier, Communications and Outreach Manager, SKA Organisation)
 - **10.50 – 11.10** EPO activities and materials - the Astronet2 perspective (M. Poessel, Haus der Astronomie - Center for Astronomy Education and Outreach, Heidelberg)
 - **10.10 – 11.20** Discussion
- 11.20 – 11.35 **Coffee break**
3. **11.35 – 13.15 Some experiences** (Chair: S. Varano)
Presentations by some of the partners about somehow exportable outreach and educational activities.
 - **11.35 – 11.50** The Laboratory of Astrophysics of Bordeaux (F. Herpin, Laboratoire d'Astrophysique de Bordeaux)
 - **11.50 – 12.05** IGN/OAN/Yebes Outreach and Educational activities (F. Colomer, Observatorio Astronómico Nacional, Centro Astronómico de Yebes)
 - **12.05 – 12.20** Pôle des Étoiles, visitor center of the Nançay radio astronomy facility (S. Nicolas, Pôle des Étoiles, Nançay radioastronomie facility)
 - **12.20 – 12.35** Effelsberg Visitors' Pavilion (N. Junkes, Max-Planck-Institut für Radioastronomie)
 - **12.35 – 12.50** Outreach and Education at the Sardinia Radio Telescope (S. Casu, INAF - Osservatorio Astronomico di Cagliari)
 - **12.50 – 13.05** Outreach at Onsala and some news about SALSA (E. Varenus, Onsala Space Observatory)
 - **13.05 – 13.15** Discussion
- 13.15 – 14.30 **Lunch**
4. **14.30 – 15.45 Existing material** (Chair: F. Colomer)
Overview of some existing radio astronomical outreach and educational material.
 - **14.30 – 14.50** Web site of EVN radio telescopes (M. Stagni, INAF – Istituto di Radioastronomia)
 - **14.50 – 15.10** Colours of the Universe (F. Mantovani, RadioNet3)

- 15.10 – 15.25 3D (and 2D) movie about radio astronomical observations (S. Varano, INAF – Istituto di Radioastronomia)
 - 15.25 – 15.35 Paper radio telescope & activities for children (N. Junkes, S. Varano)
 - 15.35 – 15.45 Discussion
- 15.45 – 16.00 **Coffee Break**
5. 16.00 – 18.00 **New activities and material** (Chair: F. Mantovani)
Discussion about the outreach material to be produced within RadioNet3.
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MINUTES:

1. Report on “Projects and Networks” session.

C. Scorza presented the outreach and educational activities related to the Universe Awareness (UNAWE) project and the Office for Astronomy Development, both led by the International Astronomical Union. In the framework of a possible RadioNet3-IAU cooperation, the most relevant issues are the UNAWE booklet “The invisible Universe”, that the RadioNet3 group is now translating in all available languages, and all the Organization and Task Forces within the OAD. Questions and comments are in fact addressed to possible cooperation for already existing educational activities in which the RadioNet3 Outreach group could be supportive and useful.

R. Ferlet talked about the European Hands On Universe “Connecting classrooms to the Milky Way” (EU-HOUMW). The project consists of running a network of Small Radio Telescopes (SRT), installed in 5 different European countries, which can be remotely controlled from a web page. The project includes a set of activities and experiments for schools. EU-HOU MW was run within the two year period 2010-2012, thus it ended now. Questions and comments are addressed to a possible continuation of the project, perhaps within RadioNet3 and in collaboration with other represented institution that are running similar activities (Lab. de Bordeaux, Onsala).

W. Garnier (*via teleconference*) gave a talk about the SKA communication strategy, focusing on some points that could be of interest for a possible SKA-RadioNet3 cooperation (SKA-RadioNet3 collaboration for a factsheet addressed to governments about non-science benefits, reports from RadioNet3 for the scientific and engineering community to be eventually included in SKA eNEWS, radio facilities factsheets for the general public to be eventually coordinated by RadioNet3, possible Radionet3 involvement in SKA indigenous Art Exhibition).

M. Poessel gave an overview of the Outreach within Astronet2, with focuses upon networking and policing issues that are common ground with RadioNet3. Some selected issues were brought to the attention of the participants of this meeting, such as project-based European funding (and thus legacy problems of such projects) and career issues.

⇒ **See Action Item A1:** S. Varano will explore new opportunities of cooperation with other networks and projects, in order to figure out what the contribution of RadioNet3 could be in each case.

2. Report on “Some experiences” session.

In this session the speakers gave an overview of their Institutions’ outreach and education activities, particularly focusing upon the material/activities that could be easily exported/reproduced by other partners. A list of the main outcomes of this session is attached (“*exportable_material.pdf*”).

3. Report on “Existing materials” session.

In this session some of the already existing products that could be part of the RadioNet3 Outreach material have been chosen and illustrated. A list of these materials presented during this session is attached (“*existing_material.pdf*”), with focus on what is still needed to make it actually usable. Some of the RadioNet3 money available for the fulfilment of new outreach material could be spent on some of these purposes.

⇒ **See Action Item A2:** S. Varano will monitor the status of the existing material, gather the lacking pieces of information and keep all the partners informed.

4. Report on “New activities and materials” discussion.

In this session the participants discussed the possible new material to be produced within Radionet3, with RadioNet3 brand. We already have provided the translations for the UNAWWE booklet in many languages.

The discussion focuses on two main proposals: a comic novel and a web page of the outreach and education activities led by RadioNet3 partners.

1) **Comic novel.** The SKA Organization has a well-based tradition on the production of such novels (*The adventure of the SKAnimals, Mission MeerKAT, Learn about radio astronomy*). The RadioNet3 group could provide the contents for a story somehow focused on our activities (e.g. interferometry or technological design and advancement).

⇒ **See Action Item A3:** A. van den Poll will open a forum (on the RadioNet3 website) for the discussion about the comic novel: all partners should subscribe and use the forum.

⇒ **See Action Item A4:** Francisco Colomer will collect and order all the ideas posted on the forum, within the 25th of March.

⇒ **See Action Item A5:** All the ideas and proposals about the comic novel will be discussed by all the partners during a teleconference on March the 31st.

2) **Web Page.** The idea is having a RadioNet3 web page dedicated to the public. It could be linked directly in the RadioNet3 official web page, but should have a different layout (and maybe then be external). The discussion led to a project with a main page showing a map (perhaps based upon Google Earth showing the RadioNet3 Institutions (not only radio telescopes) with some general information (shown on rollover or click) and a good detail about the outreach and education activities available at each place in a separated page, that finally links to the local outreach and education pages of each partners. [Such pages should all be provided also in English, one day.]

⇒ **See Action Item A6:** A. van den Poll and E. Varenius will start and work on the public outreach and education webpage of RadioNet3.

In the end the discussion briefly touched again upon the radio telescope paper model issue, since N. Junkes showed a book including the activity of “creating” the Effelsberg radio telescope out of shaped pieces of thick paper. Some of the partners suggested to have such a thing for other telescopes, or maybe for a general (stylized) radio telescope, that could be any radio telescope of the network. This issue must be discussed more in detail. This could be done using the forum and will be reported as an update about the existing material in the framework of Action Item A1.

⇒ **See Action Item A1.**