

## CALLISTO status report/newsletter #65

### New Callisto installed at Kadi Sarva Vishwavidyalaya, Gandhinagar, Ahmedabad, India

An new system has been installed at Kadi Sarva Vishwavidyalaya, Gandhinagar, Ahmedabad in India under Dr. Rajmal Jain. Antenna is a commercial CLP-5130-N from Create, imported directly from Japan. The LNA in the box underneath the antenna was manufactured at ETH Zurich based on a low cost LNA from eBay with 0.5 dB noise figure and about 25dB gain. We very welcome Ahmedabad as contributing observatory to the e-Callisto network. More information here: <http://ksvuniversity.org.in/>



Fig. 1: The whole crew including Dr. Vallabh M. Patel, Chairman of the University (in the middle).

## New Callisto installed at Smt. Kasturbai Walchand College, Sangli, Maharashtra, India

During a SCOSTEP/ISWI workshop in Sangli a new system has been set into operation. The instrument in its prototype configuration already provided data to the e-Callisto network. For more information about the college, see here: <http://www.kwcsangli.in/>  
Very welcome Sangli on board of the e-Callisto network.



Fig. 2: Dr. Dadaso Shetti and the author in front of the Callisto spectrometer during the SCOSTEP/ISWI workshop in Sangli.





Fig. 3: Chatting with her highness Maharaja Chhatrapati SHAHU II BHONSLE during Sunday excursion with participants of the SCOSTEPO/ISWI workshop. More information about the king himself, his family and their infrastructure can be found here: <http://www.royalfamilyofindia.com/kolhapur/>

## Callisto in Pune reloaded

After several years of silence colleagues managed to bring the instrument back into operation, thanks to K. Sasikumar Raja and his mentor Dr. Prasad Subramanian. The instrument has been moved to the Indian Institute of Science Education and Research in Pune (IISER). <http://www.iiserpune.ac.in/>



Fig. 4: K. Sasikumar Raja (left) and his mentor Dr. Prasad Subramanian on the roof of IISER, Pune.



Fig. 5: K. Sasikumar Raja (left) and his mentor Dr. Prasad Subramanian in front of the Callisto spectrometer.





## CESRA news

The Community of European Solar Radio Astronomers (*CESRA*), currently represented by Eduard Kontar of University of Glasgow provides highlights of the solar community, called 'nuggets'. Here a few recent examples:

- The list of 38 data centres/URLs providing solar radio observations from ~THz down to tens of kHz is now available from the webpage: [http://cesra.net/?page\\_id=187](http://cesra.net/?page_id=187)
- Solar Type III Radio Bursts: Directivity Characteristics by G. Thejappa and R. J. MacDowall <http://cesra.net/?p=968>
- Energetic electrons generated during solar flares by Gottfried Mann <http://cesra.net/?p=1005>
- You are welcome, please send to all solar radio minded people, if they want did not do it already, they can subscribe to CESRA mailing list by emailing subject 'subscribe' to send an email to <[CESRA\\_Community+subscribe@googlegroups.com](mailto:CESRA_Community+subscribe@googlegroups.com)>
- International Workshop on Solar, Heliospheric & Magnetospheric Radioastronomy :  
The Legacy of Jean-Louis Steinberg (1922 – 2016)  
Paris Observatory, Meudon – 2-5 October 2017  
Rationale of the workshop:  
Jean-Louis Steinberg has been one of the major pioneers in radioastronomy. Co-founder of the Nançay Observatory, he has actively participated to, an inspired a large number of radio instruments on many international space missions. Jean-Louis Steinberg is the founder of the Space Radioastronomy laboratory of the Paris Observatory in 1963. Later on, this laboratory widened its science interests and became the DESPA (1971) and then the current LESIA (2002) which is one of the major space sciences laboratories in France.

The aim of this workshop is to cover the science topics which Jean-Louis Steinberg has promoted during his career, focusing on Solar, Heliospheric & Magnetospheric radioastronomy & physics. This will be done by covering both observations from either ground facilities (NDA, RH, LOFAR, Artemis etc ...) or space missions (ISSEE, Ulysses, WIND, CLUSTER, STEREO, CASSINI, JUNO etc ...) and models/theories. A series of invited talks is also foreseen to cover the new developments in the discipline which may come with the future facilities such as Solar Orbiter, Solar Probe Plus, JUICE, JUNO, LOFAR+, SKA etc ....

This workshop will also be the opportunity to remember both the extraordinary personal & professional lives of Jean-Louis Steinberg especially for new generation of scientists. At the occasion of this workshop it is also expected that the Building 16 (historical Space Sciences building) on the Meudon campus will be renamed “Building Jean-Louis Steinberg”.



## Preparation of a workshop in Ethiopia Feb. 2017

I'm writing to you on behalf of Nat Gopalswamy, Solar Physics Laboratory, Heliophysics Division NASA GSFC.

We are planning a SCOSTEP-workshop in Ethiopia in February 2017 about ISWI capacity building on CMEs and Radio Bursts,

Please notify me [monstein\(at\)astro.phys.ethz.ch](mailto:monstein@astro.phys.ethz.ch) if you or your students are interested to come to this workshop.

We are interested to get a preliminary number of participants from you asap to finalize the details.

There will be two levels of support:

- Financial support will be provided only to those coming from African countries.
- For others, they should come on their own funding.
- People from developing countries will be provided with lodging and meals.

Once we know the number of interested people we will provide the workshop details

And please send this email to colleagues which might be interested in this CME/Radio Burst workshop.



## AOB

- Status Callisto in Japan, Kenya, Egypt, Costa Rica, South Africa, Bulgaria, Malaysia, Kolkata and Australia unknown. Any information very welcome. It would be nice if these countries could provide solar data again to the network.
- Links for LPDA design:
  - <http://www.changpuak.ch/electronics/lpda.php>
  - <http://www.stroobandt.com/lpda/en/index.html>
- In case you plan to publish a paper based on e-Callisto data, please invite the observer and me as the PI of the network for co-authorship. This, according to the UN/ISWI resolution about data policy, addressed during the last UN/Japan workshop at Fukuoka university.
- CALLISTO or Callisto denotes to the spectrometer itself while e-Callisto denotes to the worldwide network.
- General information and data access here: <http://e-callisto.org/>
- e-Callisto data are hosted at Fachhochschule Nordwestschweiz (University of applied sciences FHNW) in Brugg/Windisch, Switzerland. Process control, user communication and scripts are conducted at institute for Astronomy, ETH Zurich.

Please do **not** respond to the email-address of the list-server, respond instead directly to me [monstein\(at\)astro.phys.ethz.ch](mailto:monstein(at)astro.phys.ethz.ch)

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On the other hand, if you think someone else might be interested in this kind of info, please let me know his/her email-address to be added to the data base.

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