

# CALLISTO status report/newsletter #69

## First light observed at Graz University, Austria

Short after installation and configuration of the instruments at university of Graz, they got first light with their Callisto instrument.

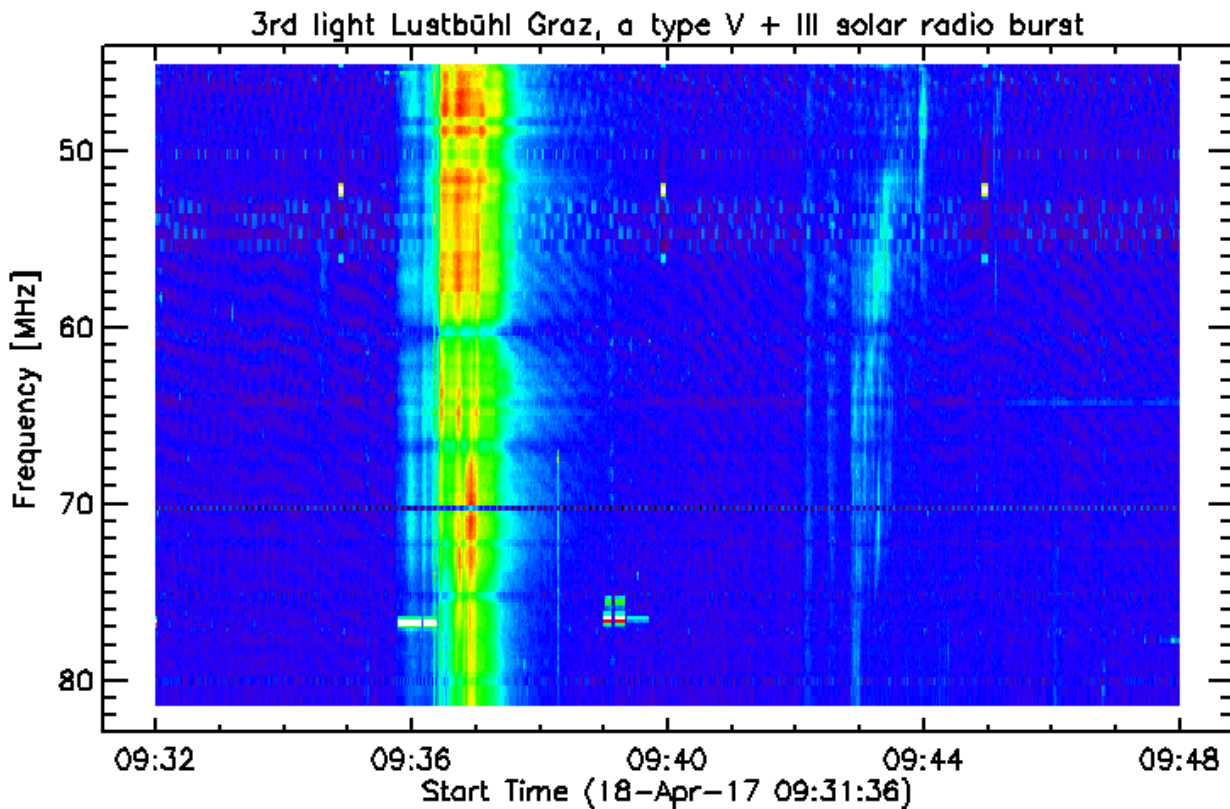


Fig 1: Two different burst types within a few minutes. For details see NOAA-list below.

3950 +	0929	0941	0955	G15	5	XRA	1-8A	C3.3	3.1E-03	2651
3950 +	0934	////	0939	SVI	C	RSP	025-180	V/2		
3950	0936	0936	0936	SVI	G	RBR	245	100		
3950 +	0941	////	0947	SVI	C	RSP	025-180	III/2		



## Oscillations in the 45-5000 MHz Radio Spectrum of the 18 April 2014 Flare

Marian Karlický, Ján Rybák and Christian Monstein published a paper, based among other data on Callisto data from GLASGOW, BLEIEN and ONDŘEJOV

Springer Nature Link:

<http://rdcu.be/tvZB> <[http://em.rdcu.be/wf/click?upn=KP7O1RED-2BID0F9LDqGVeSCEwT-2FLiQJe1QjIn8o8J8Jc-3D\\_P57tvIL1xDj5ccHI6D3ROSqxwvir60qe-2FMmivm7N9egn99BiQ6WNht-2BatXV23bYyjCIUwLnBdbz7NlqnjtYATamc-2BMLQbPudDFK1O9gTazjZsLeqKLfHYaaLQVGE1UA4YrdgWVLU7bVz97wuytYZXaXvC57d7OZMYIfWwvKKB-2F6a2k9zz7r1G4hR9kx2paulSYkLVqK9Y7HyMsepd10DRw-3D-3D](http://em.rdcu.be/wf/click?upn=KP7O1RED-2BID0F9LDqGVeSCEwT-2FLiQJe1QjIn8o8J8Jc-3D_P57tvIL1xDj5ccHI6D3ROSqxwvir60qe-2FMmivm7N9egn99BiQ6WNht-2BatXV23bYyjCIUwLnBdbz7NlqnjtYATamc-2BMLQbPudDFK1O9gTazjZsLeqKLfHYaaLQVGE1UA4YrdgWVLU7bVz97wuytYZXaXvC57d7OZMYIfWwvKKB-2F6a2k9zz7r1G4hR9kx2paulSYkLVqK9Y7HyMsepd10DRw-3D-3D)>

## Success story sent in by Zulaikha Afandi et al from University of Malaya, Kuala Lumpur, Malaysia

I am writing this email to inform you that our research team (Electromagnetic Research Group) had participated in innovation competitions recently. The details are as follow:

1) Competition: Research and Innovation Week, 2017 (MPI2017). 12 – 13 Apr 2017.

Result : Gold Medal, see image below on page 3

Product : Burst-Finder: Automated Solar Radio Burst Detection for e-CALLISTO Spectra.

Project members: Nur Zulaikha Mohd Afandi , Roslan Umar, Nor Hazmin Sabri, Zainol Abidin Ibrahim, Christian Monstein & Zamri Zainal Abidin.

2) Competition: 28th International Invention, Innovation & Technology Exhibition. 11-13 May 2017.

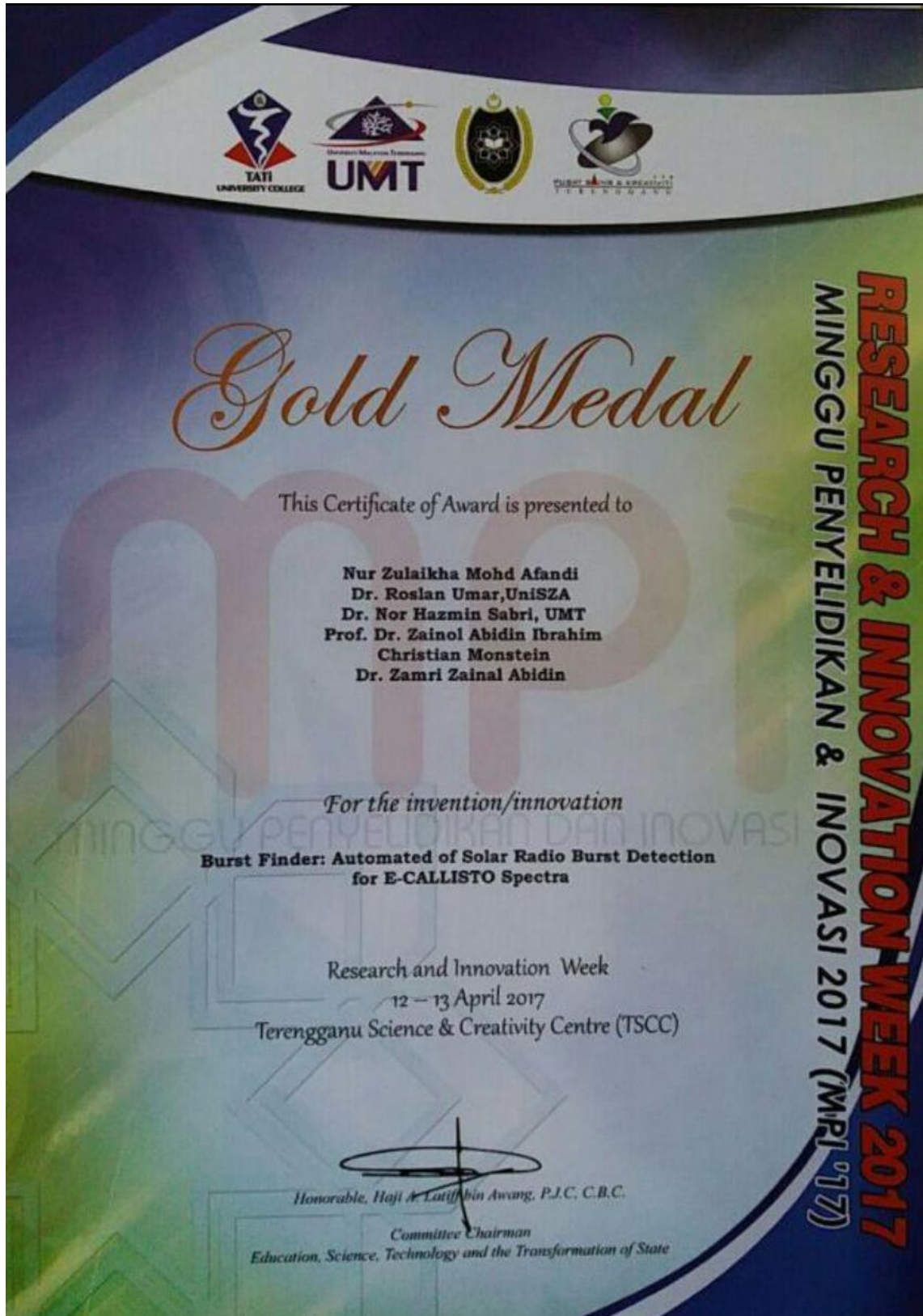
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## CESRA news

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:

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The Brightness Temperature of the Quiet Solar Chromosphere at 2.6 mm  
by Kazumasa Iwai et al  
<http://cesra.net/?p=1325>

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Microwave emission as a proxy of CME speed in ICME forecasting  
by Carolina Salas Matamoros, Ludwig Klein and Gerard Trottet  
<http://cesra.net/?p=1336>

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Comparison of alternative zebra-structure models in solar radio emission  
by G.P. Chernov et al.\*  
<http://cesra.net/?p=1341>

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Multi-Loop Structure of Nonthermal Microwave Sources in a Major Long-Duration Flare  
by V. Grechnev et al.\*  
<http://cesra.net/?p=1375>

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Particle acceleration and turbulence during a solar flare  
by E.P. Kontar et al.\*  
<http://cesra.net/?p=1409>

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The 30 cm solar radio flux: a new proxy for upper atmosphere specification  
by Thierry Dudok de Wit and Sean Bruinsma  
<http://cesra.net/?p=1423>

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**AOB**

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- **ESA Space Situational Awareness: <http://swe.ssa.esa.int/>**
- **[http://swe.ssa.esa.int/web/guest/GEN\\_1st](http://swe.ssa.esa.int/web/guest/GEN_1st)**
- **You need to register first, then you can login for data retrieving**
- **<http://swe.ssa.esa.int/web/guest/request-for-registration>**
- -----
- Status Callisto in different countries/locations unknown. Any information is very welcome. It would be nice if all countries could provide solar data 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.

Christian Monstein, Institute for Astronomy, ETH Zurich, Switzerland. [monstein\(at\)astro.phys.ethz.ch](mailto:monstein(at)astro.phys.ethz.ch)