



## COSMOS2020 NEWSLETTER #3

20 April 2015



### **Launch your Business with Big Data from Space**

**The Earth Monitoring Competition is awarding prizes to innovative solutions for business and society based on Earth observation data.**

The Copernicus Masters competition is inviting all interested participants to submit outstanding ideas, applications, and business concepts involving innovative uses of Earth observation data. Along with cash prizes, the winners will receive access to a leading international network, corresponding data, start-up funding, and other support valued at more than EUR 300,000 in total.

The tremendous amounts of data produced by the European Earth observation programme Copernicus and its Sentinel satellites hugely benefit science and public authorities and open the door to countless products and applications in a wide array of business sectors. The European Space Agency (ESA) and Anwendungszentrum GmbH Oberpfaffenhofen (AZO) have thus initiated the Copernicus Masters competition to aid visionary entrepreneurs in bringing their innovations to market.

Submissions for all Challenges will be accepted from 15 April to 13 July 2015.

[Further Information](#)



### **Apply as research fellow**

**ESA is now offering new opportunities for research fellows. They are open to holders of a PhD in science, engineering, IT and a number of non-space-related backgrounds.**

ESA's Postdoctoral Research Fellowship programme (RFP) aims to offer young scientists and engineers the possibility for two years to carry out research in a variety of disciplines related to space science, space applications or space technology. Applicants must have recently attained their doctorate in a field closely connected to space activities.

[Further Information](#)



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## Rosetta and Philae find comet not magnetised

**Measurements made by Rosetta and Philae during the probe's multiple landings on Comet 67P/Churyumov-Gerasimenko show that the comet's nucleus is not magnetised.**

Studying the properties of a comet can provide clues to the role that magnetic fields played in the formation of Solar System bodies almost 4.6 billion years ago. The infant Solar System was once nothing more than a swirling disc of gas and dust but, within a few million years, the Sun burst into life in the centre of this turbulent disc, with the leftover material going into forming the asteroids, comets, moons and planets.

The dust contained an appreciable fraction of iron, some of it in the form of magnetite. Indeed, millimetre-sized grains of magnetic materials have been found in meteorites, indicating their presence in the early Solar System.

This leads scientists to believe that magnetic fields threading through the proto-planetary disc could have played an important role in moving material around as it started to clump together to form larger bodies. But it remains unclear as to how crucial magnetic fields were later on in this accretion process, as the building blocks grew to centimetres, metres and then tens of metres across, before gravity started to dominate when they grew to hundreds of metres and kilometres in scale.

[Further Information](#)



## United Nations/Germany International Conference on Earth Observation: Global solutions for the challenges of sustainable development in societies at risk, 26 – 28 May 2015 in Bonn, Germany

**This conference aims at bridging the gap between Earth Observation experts and decision makers to find Earth observation solutions that match the challenges of governments in societies at risk. The objectives are to address important challenges, demonstrate existing solutions, identify future potential, and facilitate collaboration.**

The space community has already started a global effort to contribute to the new framework for disaster-risk reduction. The conference will serve as a platform to facilitate the coordination of this open group to help countries in their efforts to institutionalize the use of space-based information for disaster risk reduction. Sustainable development, adaptation to climate change, managing climate-change induced extreme weather events, dealing with losses and damages, and reducing disaster risks are strongly interlinked processes.

[Further Information](#)



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5th int. galileo science colloquium  
braunschweig, germany, 27 - 29 october 2015

## Colloquium on scientific & fundamental aspects of Galileo 27 – 29 October 2015 in Braunschweig, Germany

**Europe's Galileo satellite navigation system, currently under construction, will affect many aspects of daily life. It also promises to be a valuable scientific yardstick – a new highly precise measuring system to apply to our planet and everything on it, and even to space-time itself. Interested in contributing a paper?**

This colloquium will bring together members of the European scientific community and their international partners involved in the use of GNSS signals in their research, specifically Galileo signals. Major academic players will meet with institutional and industrial executives to share innovative ideas and influence the future evolution of Europe's own GNSS.

Interested in contributing a paper? The online submission of abstracts is open until 15 May 2015

[Further Information](#)



EUROPEAN  
SATELLITE NAVIGATION  
COMPETITION 2015

## European Satellite Navigation Competition ESNC to Reward Ideas for a Connected World

**Satellite Navigation technologies open the door to myriad applications. ESNC is excited to see yours! Each year, the European Satellite Navigation Competition (ESNC) recognises the best products, services, and innovations that leverage satellite navigation in our daily lives.**

This year prizes will be awarded by some of the most relevant institutional GNSS stakeholders, such as the European GNSS Agency (GSA), the European Space Agency (ESA), the German Aerospace Center (DLR), and the German Federal Ministry of Transport and Digital Infrastructure (BMVI) in association with the Federal Ministry for Economic Affairs and Energy (BMWi). In addition, more than 20 partner regions from all over the world will host regional challenges. The prize pool of the ESNC 2015 has a value of about EUR 1 million. Prizes include cash awards, business incubation, business coaching, patent consulting, technical support, access to testing facilities, prototype development, publicity, marketing support and much more.

ESNC entrants particularly benefit from the chance to work closely with worldclass institutional and regional partners. The competition is geared toward individuals and teams from companies, research institutes, and universities across the globe.

The ESNC is an international contest that annually awards the best services, products, and business innovations using SATELLITE NAVIGATION IN EVERYDAY LIFE. Its mission is to spur the development of market-driven applications based on satellite navigation technologies, including EGNOS and Galileo. Within the past 12 years more than 9,200 developers took part

The submission phase runs from the 1 April - 30 June 2015.

[Further Information](#)



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