



RadioNet support for scientific events

Application form

EVENT INFORMATION	
TITLE	2017 IEEE International Young Scientists Forum on Applied Physics and Engineering (YSF-2017), www.ysc.org.ua
PLACE	Lviv, Ukraine
ORGANISER'S INSTITUTE	O. Ya. Usikov Institute for Radiophysics and Electronics NAS of Ukraine (IRE NASU)
DATE	October 17-20, 2017
NO. OF PARTICIPANTS	200
TOTAL EVENT COST	€7000
OTHER SOURCES OF FUNDING	<p>IEEE AP-S, ED-S, MTT-S, SSC-S IRE Kharkiv Student Branch chapters - €3400</p> <p>IRE NASU - €650</p> <p>EuMA - €500</p> <p>IEEE Ukraine Section Women in Engineering Affinity Group - €450</p> <p>IEEE East Ukraine Joint Chapter - €430</p> <p>OSA IPMash Student Chapter - €200</p> <p>IEEE Ukraine Section Young Professionals Affinity Group - €170</p> <p>EPS Young Minds - €500 (pending application)</p>
REQUEST	
<i>(max 2 pages)</i>	
Requested contribution [EURO]	700 Euro
Use of the RadioNet contribution	<p>YSF-2017 will be held for the third time and as usual Radio Astronomy and Astrophysics section is one of its most fruitful events. This year for the first time we decided to expand the scope of the Radio Astronomy section and named it Multiwavelength Astronomy and Astrophysics. We are expecting up to 15-20 young scientists from Ukraine and abroad to present their researches at this section.</p> <p>We also plan to hold the workshop on Antenna Array Shape Impact on Signals and RFI in Radio Astronomy. A unique case of several antenna arrays close placement at the territory of S. Ya. Braude Radio Astronomy Observatory gives a great opportunity to compare signals from arrays of different shapes and designs. Single section of GURT radio telescope, interferometer of two GURT subarrays, different combinations of arms and sections of UTR-2 radio telescope give a great variety of antenna configurations for different studies of cosmic sources and RFI environment. URAN-2 radio telescope placed 100 km apart of the Observatory gives the opportunity to compare the same signals from cosmic sources in different ionospheric conditions and RFI environment. The dynamic spectra of Solar, Jovian, pulsars radiation as well as long-term changes of RFI environment and Galactic background radiation in various time scales are very interesting objects to study and give a clear illustration of antenna parameters and radio astronomy signal</p>

	<p>variety. The workshop will be interesting for antenna engineers, people who are involved in data processing, spectra management and for sure for radio astronomers.</p> <p>The contribution from RadioNet will be spent to cover travel expenses of the participants of Multiwavelength Astronomy and Astrophysics section and of the above mentioned workshop; to provide several prizes for the best presentations in section; and for premises and equipment rental (microphone, projector, loudspeakers and so on). We plan to provide up to 10 travel grants up to 40 Euro each (ground transportation in Ukraine should not exceed that sum) and 2 prizes (200 Euro). Selection will be made basing on the CV forms of applicants (please see detailed procedure here: http://ysc.org.ua/2017/grants). The qualified jury will attend the section and select the award recipients basing on the originality, novelty, practical importance, degree of personal contribution and level of presentation.</p>
How the event fits in the RadioNet framework	<p>Young scientists involved in optical astronomy and radio astronomy from the whole Eastern Europe will have an informal place to exchange the experience and enlarge the community of radio astronomers involved with common projects using the LOFAR radio telescope as a part of RadioNet network. New generation of scientists has to develop new ideas for studies and investigations and communication is the best driver for this activity.</p>
Relevance of the event for RadioNet	<p>The YSF-2017 will be held in Lviv – a city close to Ukraine-Poland board. Ukrainian scientists have a great experience in low-frequency radio telescopes construction (UTR-2, URAN, GURT) and using them for scientific purposes. Poland is a newcomer to LOFAR community with the three new LOFAR stations (PoIFAR project). YSF-2017 is a perfect event for young scientists from different schools of radio astronomy to meet each other, exchange their experience and establish new connections. It is especially important because a new age requires more instruments and methods of data processing, larger and more sensitive radio telescopes for exploration and monitoring the transient events in our Universe. Ukraine has chosen its goal to integrate to European community and the most fruitful cooperation is possible in the area of science research. The invitations to participate in the Forum were sent to all technical universities in Poland and Ukraine and we expect many young scientists to participate in the section and take part in various workshops on scientific topics as well as soft skills development. The topics of Jovian and Solar radio emission studies, pulsar and transients monitoring, radio telescope testing and calibration are urgent at low frequencies and are paid much attention in Ukraine now. The section includes wide scope of problems at multiwavelength scale.</p>
Ethics	<p>We intend to thoughtfully consider ethical issues and provide ethically appropriate services to all participants while recognizing their cultural background or life experience. The YSF-2017 has IEEE Ukraine Section Women in Engineering Affinity Group among organizers, and we highly value contributions into the forum's program made by women participants. The Affinity Group will also hold a special event dedicated to women in science.</p>