

Request for support for 2 events

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Event Information

Title	1 – Event 1 : 3rd Meeting : RADIOTELESCOPE PROJECT IN TUNISIA Of new Generation My conference: Research Themes 2 – Event 2 : - RADIOTELESCOPE PROJECT IN TUNISIA - Structure of the universe
Place	1 – Event 1 : Gafsa University, Gafsa TUNISIA 2 – Event 2 : Higher education institutions of 12 cities of Tunisia
Organiser's Institute Name	Associations :- RADIOTELESCOPE PROJECT IN TUNISIA (In France) - Science, technologie et unicité (STU) (In France and in Tunisia) Drs GHOURABI moncef.astu@gmail.com
Date	Monday, April 4, 2019,
No. of participants	1 - Event 1: 12 speakers. But the participants a few dozen. 2 - Event 2: Dozens
Total event cost	For me: Hotel + Food: 20 euros X 29 days = 580 euros Total = 1670 euros I don't have information on the expenses of the University of Gafsa and on the expenses of the different student associations.
RadioNet support	1 – Event 1: 297 euros 2 - Event 2: 793 euros Total: 1090 euros
Other sources of funding	No funding Personal financing with my own money

REQUEST (max. 2 pages)

Short abstract of the event	<p>I am working (with the STU team) for the construction of a new generation radio telescope in Tunisia and its integration in the European network LOFAR (and NenuFAR) where we plan in this context to ask its (LOFAR) management to install stations with several antennas in southern Tunisia.</p> <p>Two meetings took place in December 2018 in Tunisia where I presented lectures on radioastronomy, and where radio telescopes and European radio telescope networks (such as LOFAR, AP, APEX, ALMA, the big nancay telescope, NenuFAR, the Embrace project) had a central presentation. But also 12 conferences were held in the higher education institutions of 12 cities of Tunisia on the same themes, and this, in order to sensitize researchers and students to the Project.</p> <p>The future meeting and the series of conferences will take place in April 2019, and we plan to found different teams for the in-depth scientific studies of the project. I will continue this sensitization with the STU team of Tunisia and the 2 universities of southern Tunisia until the completion of the construction of the radio telescope in southern Tunisia and its integration, at the same time, to the European networks of radio telescopes.</p>
Relevance for RadioNet	<p><i>I am working (with the STU team) for the construction of a new generation radio telescope in Tunisia and its integration into the European network LOFAR (and NenuFAR) where we plan in this context to ask its management (of LOFAR) to install stations with several antennas in southern Tunisia.</i></p> <p><i>1 - For this we have already organized 2 sensitization meetings in universities centers in southern Tunisia. The first took place on 17 December 2018 at the Higher Institute of Technological Studies of Tataouine (ISETAT). At this meeting, and at the request of the participants, a second meeting was held</i></p>

on 25 December 2018 at the Institute of Arid Regions in Medenine (IRA). These 2 sensitization meetings were very successful with the participants: Two vice presidents of the University of Gafsa and the University of Gabes, Directors of Institutes, Directors of Departments, Researchers and Teachers scientists from research and higher education institutions in southern Tunisia.

The success of the 2 meetings (see attached photos) to let the participants inform me of their agreement to send researchers or students to do doctoral theses or internships, or doctoral positions in specialized centers of radioastronomy related to European radio telescopes using, in particular, the method of interferometry. Already, I will have meetings, with different heads of research centers and French higher education radio astronomy institutions, in the coming weeks.

But also, the president of the University of Gafsa, asked me that one organizes with his university of Gafsa the 3rd meeting of the project Radiotelescope of new generation. This meeting will be held on April 4, 2019 (see program attached). I ask for this meeting to support me for the purchase of the plane ticket, Paris-Tunis-Paris return trip from April 3 to May 2, 2019, whose cost is 210 euros (air France); and to support the financing of 4 advertising banners (2: 3mx2m and 2: 4mx1.10m) of 87.57Euros (=300 Tunisian dinars) or the Logo of RadioNet would be included.

So the total amount of support would be 297 euros for this meeting.

The on-site organization of the meeting is done by the University of Gafsa.

1 Tunisian Dinar = 0.29 Euro on Jan. 31 at 20:38 UTC

2 - On the occasion of the 3rd meeting of April 4, which will take place at the University of Gafsa, I will give a series of lectures on the Radio Telescope Project in Tunisia and on astronomy (see the attached photos of the tour of 12 conferences that I carried out between 1 and 26 December 2018 in higher education institutions of several Tunisian cities (Tunis, Sousse, Bizerte, Tozeur, Djerba etc, in addition to the 2 meetings carried out.) For this series there would be 12 conferences in different cities between 5 and 30 April 2019.

For the conference tour of December 2018, the rental of the car for the duration of the event cost me: 543,59 euros (= 27 days X 69 Tunisian Dinars = 1863 Tunisian dinars), and the consumption of fuel oil m cost: 250 Euros (= 860 Tunisian dinars). So the total expenses without the motorway toll and hotel nights is 793 euros.

I ask for this series of conferences to support me with 793 euros for a car rental of 27 days and its consumption of diesel.

On-site organizations of conferences in higher education institutions in different Tunisian cities will be carried out by teachers or student scientific associations.

1 Tunisian Dinar = 0.29 Euro on Jan. 31 at 20:38 UTC

Impact on
RadioNet

The construction of a radio telescope in southern Tunisia and its integration, at the same time, to the European networks of radio telescopes.

Use of the
RadioNet
contribution

1 - The purchase of the plane ticket, Paris-Tunis-Paris return trip from April 3 to May 2, 2019, whose cost is 210 euros (air France); and to support the financing of 4 advertising banners (2: 3mx2m and 2: 4mx1.10m) of 87.57Euros (=300 Tunisian dinars) or the Logo of RadioNet would be included.

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Ethics

1 - For meetings, the female presentation is good, and I expect it will grow in the future.

2 - The number of female students is female teachers who attend the lecture series is greater than the number of students and teachers.

In the STU there are 8 active members of the female sex and 4 active members of the male sex.

With signing this template and applying for RadioNet funding, I accept the Privacy Policy of RadioNet, which is based on the EU General Data Protection Regulation (GDPR).

Moncef GHOURABI

Saint Maurice, France

Doctor Es-Sciences in the magnetism of rocks
Doctor in Seismology
Diploma of Advanced Studies in Geophysics and Geochemistry
Master of Science and Geology Technics.



Event 1 :

3rd Meeting : **RADIOTELESCOPE PROJECT IN TUNISIA Of new Generation**

Date : Monday, April 4, 2019, Gafsa University, Gafsa TUNISIA

Chairman : **Moncef GHOURABI** Presidents of associations in France :

1 - RADIOTELESCOPE PROJECT IN TUNISIA, and 2 – Science, Technology Unicity, (STU Paris)

Coordinator: **Ali MANSOURI** (Vice-President of Gafsa University)

CONFERENCE PROGRAM

9 :00 a.m. Welcome and Introduction

9 :00 a.m. Speakers :

- **The fields of research** Moncef GHOURABI (STU-Paris)
- **Antennas** Arbi FATTOUM (Director of the Preparatory Institute for Engineering Studies, Gafsa)
- **Interferometry applied to the new generation of telescopes** (several antennas)
Ammar HIDOUR (Director of the Higher Institute of Science and Technology of Energy, Gafsa)
- **Instruments and equipments of new generation of telescopes**
Narjis KHALIFA (Signal processing Teacher, Gafsa University)
- **Routing of data to the central computer**
Saïd TAIEB (Computer Teacher, Higher Institute of Applied Sciences & Technology, Gafsa)
- **Computing and Processing Center / Big Data: Network and Software**
Dalal BOURGHIS (Network Teacher, Higher Institute of Technological Studies, Tataouine)
- **Power supply on energy of the site**
Wadhah SOUA (Director, Higher Institute of Applied Sciences & Technology, Gafsa)
- **The Study of the site** Farah Ben SALEM (Researcher, Institute of Arid Regions, Medenine)
- **Study of Jupiter and the Sun**
Noureddine ETTAYEB (Professor in Chemistry, the Preparatory Institute for Engineering Studies, Tunis)

12 :00 a.m. Lunch :

1 :00 p.m. Speakers

- **Prototype: Radio telescope with 5 to 10 antennas**
Othmen KHALDI (Director of the Department of Mechanics, Faculty of Sciences, Gafsa)
- **Instruments manufacturing opportunities in Research Institutions** Kamel Charbib (Director of ARABCOM)
- **Estimated Project Costs**
Zeineb ABDELLATIF (Director of the Management department of Higher Institute of Technological Studies, Tataouine)
- **Discussion**

3 :00 p.m. Coffee and tea

3 :15 p.m. Follow-up committee meeting (day or evening of the same day or the next day)

4 :45 p.m. -Conclusions and Perspectives

5 :00 p.m. closing

PROJET **RADIOTELESCOPE EN TUNISIE** DE NOUVELLE GENERATION

1^{er} Meeting, 17/12/18, Tataouine

2^{eme} Meeting, 25/12/18, Médenine



Série de Conférences (12) Du 29 au 26 /12/18,

