



The Fifth International Congress for Radio Astronomy

The European Radio Astronomy Club

At the

University of Applied Science (FH Wieblingen) Heidelberg Germany

4th to the 6th of September, 2009

Forth Congress Program

Thursday 3rd of September "Early Arrivals" will meet for a beer in the Heidelberger Altstadt (Old Town) Near the Old Heidelberger Bridge in the Steingasse 9 at the Wirtshaus **VETTERS** with its own Brewery inside, we have a table reserved from 19:00 Onward for ERAC

Friday the 4th of September (Workshop Day) Somewhere on campus ! Early arrivals please call peter !

10:00 CAD Circuit design using Sprint layout

11:30 SMD Soldering

12:30 **Dinner break**, at *Café Liberty on campus next to the Boarding house*

14:00 Understanding S Parameters "Using Agilent S Parameter Tester Live" Agilent

19:00 **End of the first day.** *Booze up on Campus "Liberty" Bonnhöfer Str 8*

Saturday the 5th of September In the Science Tower Great Lecture hall at the Base Ludwig Gutman Str 6

08:00 **Official Opening** Peter Wright, ERAC President, Prof P Shuch SETI League Executive Director, SARA 30 min

08:30 **Designing Low noise Amplifiers the E PHEMT as MMIC** Peter Wright ERAC President 15 Min

09:00 Introduction to SETI Science and Technology Prof Dr Paul Shuch SETI League USA 30 min

09:30 The Radio Telescope Mannheim Upgrade 2007- 2009 Peter Wright ERAC President 30 Min

10:00 **Welcoming address** University of Applied Science Heidelberg Dr Winterberg SRH Heidelberg 30 min

10:15 Interferometry and Circular Polarisation Measurements in Radio Astronomy Dr David Fields SARA USA 30 min

10:45 **Short Tea and Coffee Break**

11:00 Cosmic Rays the Highest Energies in the Universe Dr Jörg Hörandel Radbound University Nijmegen Holland 60 Min

12:00 **Official Group Photo In front of the Science Tower** 10 Min followed by a "Brisk" walk to Dinner

12:15 **Dinner break**, at *Liberty on campus next to the Boarding house*

13:30 The Expanding Planets. Prof Dr-Ing Konstantin Meyl University of Furtwangen Black Forrest Germany 120 Min

15:30 **Short Tea and Coffee break 15 min**

15:45 LNA Cooling Peter Wright ERAC President 30 Min

16:15 The Multiwavelength Galactic centre SgrA Ms Yasmin Walter University of Frankfurt 40 min

17:00 The Landes Sternwarte Heidelberg Bernhard Keil Centre for astronomy University of Heidelberg (Film)

17:30 Project Argus Update Prof Dr Paul Shuch SETI League USA 30 min

18:00 The Optical Lunar Opposition Effect Prof Dr Elmar Schmidt University of Applied Science Heidelberg 30 min

18:30 Radio Eyes The Future of our Radio Astronomy, Global Joint Observing and VLBI Peter Wright ERAC President

20:00 End of the First Day we all go off to the **Official Congress Banquet. LIBERTY on Campus**

22:30 Possibility to Visit the Landes Sternwarte Heidelberg "Attach yourselves to Bernhard Keil" we need car drivers !

Sunday the 6th of September In the Science Tower Great Lecture hall at the Base

09:30 **Opening Coffee**

10:00 The Noise free far side of the Moon and the Future of Radio Astronomy Prof Claudio Maccone University of Turin Italy 30 min

10:30 Spacecraft Reception on 8.4GHz with a 1.8m Dish Dipl-Ing Wolfgang Arnold Germany 30min

11:00 International Spectrometer Network CALLISTO Dipl-Ing Christian Monstein Institute of Astronomy ETH Zurich Switzerland 60

12:00 **Dinner break**, at *Liberty on campus next to the Boarding house*

13:30 The Day the Earth stood out Prof Dr Paul Shuch SETI League USA 30 min

14:00 Beyond the FFT : Extraction of weak signals from Noise plus Data Compression by the **KLT** Prof Claudio Maccone 30 min

14:30 Monitoring Solar Activity by observing Satellites Martin Bertges 30 min

15:00 **Coffee break**

15:30 Non-local Signal Transfer between Atomic Nuclei (Timewave Research) Dipl.-Ing. Eckhard Kantz 45 min

18:15 A New way of planning SETI Searches by the STATISTICAL Drake Equation Prof Claudio Maccone 30 min

18:45 ???

18:45 ???

19:15 ??? All gaps in the program will be filled with interesting Lectures not yet official allot of you give me your lecture on the day

19:45 **Official End of the fifth International Congress for Radio Astronomy . or maybe later depending on late lectures**

The Survivors meet again for a final feed again at **Liberty**

Emergency Telephone Info - Peter: 01736366076/

Restaurant on Campus LIBERTY on the Bonnhöfer Strasse 8 behind the boarding house

This Event is open to Registered Members and Guests as well as Lecturers and Students of the University City of Heidelberg.

Contact info: www.eracnet.org erachq@aol.com Peter Wright Ziethen STR 97 68259 Mannheim 0621 794597

Emergency Hotels : High Class reasonable price Hollander Hof **06221 60500** www.hollander-hof.de

ETAP Hotel Langlachweg 18, 68229 Mannheim – Friedrichsfeld 0621 48 47 620

Or find one in heidelberg via tourist information 06221 1422 ext 24 or 25 or 26 the Congress is in Heidelberg Wieblingen