# Project Activities

- **Data Acquisition and Processing Systems for Radiation Detectors**

- **Advanced Digital Pulse Processing Methods on FPGA**

- **Ionization Radiation Measurement**

Project 1

Group 1:

SULISTYO Jos	Indonesia
HIJEJ Salim	Syria (Lebanon)
AL-MOHAMMAD Hussein	Jordan
BARIE Exavier	Tanzania
MATTENET Mariana	Argentina
CATALANO Nicolas	Argentina
TATES MONTENEGRO Galo	Ecuador
HAZOU Eyakifama	Togo
BAJWA Fatima	Pakistan
CALVILLO Rogelio	Mexico
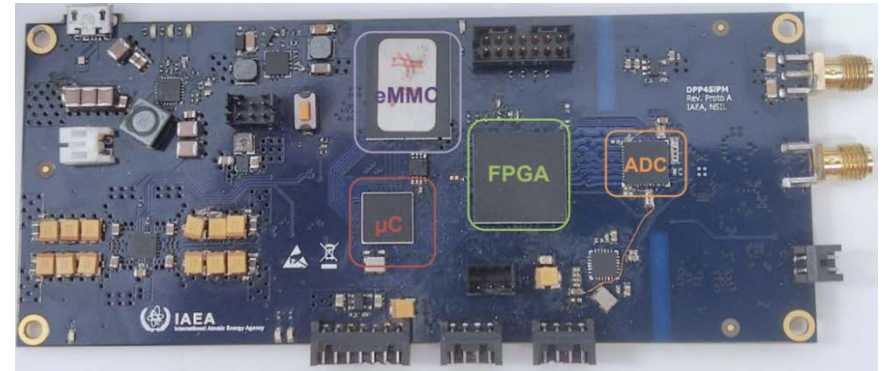
Custom-designed FPGA-uC board

M. Bogovac, N. Jovalekic, I. Morales

Project 2

Group 2:

SRIVASTAVA Geetika	India
RESTREPO Valentina	Colombia
BOETTE Alan	Argentina
DEMIRAJ Gani	Albania
BARRIOS DE LEÓN Gabriel	Guatemala
MALWATHTHA Sameera	Sri Lanka
AHMAD Shamim	Bangladesh
CHOWDHURY Md Nakib Hayat	Malaysia
LOPEZ HERRERA Saul	Guatemala
MONTOYA Sebastián	Colombia
PASTRANA Mario	Brazil
KHATUN Hiramoni	India
SHARMA Chayanika	India
ORTIZ ROSALES Alberto	Mexico
KALANTAI Olha	Ukraine
ZAIACHKOVSKA Iryna	Ukraine
BOURENANE Abdelghani	Algeria
NOVOR Rene	Ghana

TCHAHOU TCHENDJEU Achille	Cameroon
OLUWATOPE Ayodeji	Nigeria
MEMON Md Saad	India
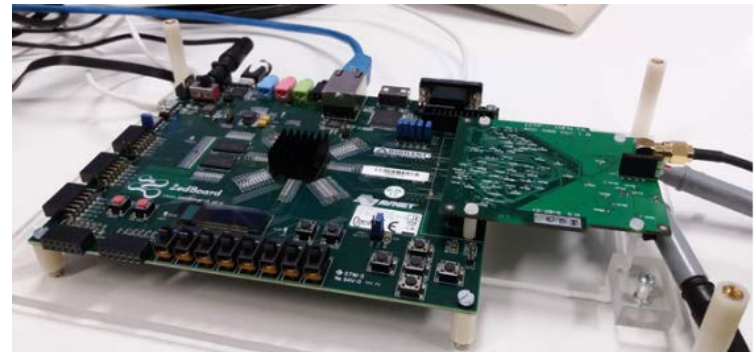
SoC-FPGA Zedboard

Custom-designed high-speed ADC500 board

L. Garcia, W. Florian, M. Ballina, B. Valinoti

Project Presentations

The three best presenters will receive an award of Euro 200 each.

- PPT presentations of about 5 min on the School's exercises and project activities

- The goal of the presentation is to communicate your personal experience including:

- Practical activities that you preferred and considered more relevant for your research

- New topics learned during exercises and project activities sessions

- Brief description of the project and implemented solution

- Difficulties and challenges afforded

- Your personal improvement to the implemented solution

- Other personal comments and suggestions

Please confirm your participation by e-mail to mcrespo@ictp.it

Project Presentations

Participants:

SRIVASTAVA Geetika	India	**SHARMA Chayanika**	India
RESTREPO Valentina	Colombia	**BOURENANE Abdelghani**	Algeria
BOETTE Alan	Argentina	**NOVOR Rene**	Ghana
BARRIOS DE LEÓN Gabriel	Guatemala	**TCHAHOU TCHENDJEU Achille**	Cameroon
MALWATHTHA Sameera Viraj	Sri Lanka	**OLUWATOPE Ayodeji**	Nigeria
CHOWDHURY Md Nakib Hayat	Malaysia	**MEMON Md Saad**	India
PASTRANA Mario	Brazil	**SULISTYO Jos**	Indonesia
KHATUN Hiramoni	India	**AL-MOHAMMAD Hussein**	Jordan
MONTOYA Sebastián	Colombia		

Project Presentations

Best presentations with awards:

- **SHARMA Chayanika**, India
- **BOURENANE Abdelghani**, Algeria
- **NOVOR Rene**, Ghana

Special mention for the presentations of:

- **BOETTE Alan,** Argentina
- **MONTOYA Sebastián**, Colombia
- **MEMON Md Saad,** India
- **AL-MOHAMMAD Hussein,** Jordan
- **OLUWATOPE Ayodeji,** Nigeria
- **BARRIOS DE LEÓN Gabriel,** Guatemala
- **MALWATHTHA Sameera Viraj,** Sri Lanka
- **CHOWDHURY Md Nakib Hayat,** Malaysia

About ICTP

➢ Founded in 1964 by the late Nobel Laureate Abdus Salam

➢ Promote advanced scientific research in the developing world

➢ An institute run by scientists for scientists

➢ Cutting edge research, education and training

➢ Funded by the Italian Government, UNESCO, and the IAEA

ICTP Mission

➢ Foster the growth of advanced studies and research in physical, mathematical and related sciences, especially in support of excellence in developing countries.

➢ Develop high-level scientific programmes keeping in mind the needs of developing countries, and provide an international forum of scientific contact for scientists from all countries.

➢ Conduct research at the highest international standards and maintain a propitious environment of scientific inquiry for the entire ICTP community.

Research at ICTP

➢ High Energy, Cosmology and Astroparticle Physics

➢ Condensed Matter and Statistical Physics

➢ Mathematics

➢ Earth System Physics

➢ Quantitative Life Sciences

➢ Science, Technology and Innovation

➢ Energy and Sustainability & Computing Sciences

ICTP Laboratories

Multidisciplinary Lab (MLAB)

- ➢ Advanced Scientific Instrumentation
- ➢ X-Ray Analytical Techniques and Methods
- ➢ Optics and Lasers

Marconi Lab

- ➢ Wireless ICT and IoT
- ➢ Ionospheric Physics and Modelling

Scientific Fabrication Lab (SciFabLab)

- ➢ Open-source digital fabrication (3D printers)
- ➢ Science Dissemination

ICTP Programmes

Conferences, Workshops and Schools

➢ ICTP organizes more than 60 international workshops, schools, and conferences every year.
Please check ICTP's Scientific Calendar frequently for updates.

Career Development

➢ Junior, Regular and Senior Associates
➢ Affiliated Centres
➢ Training and Research in Italian Laboratories (TRIL)
➢ External Activities Unit

ICTP Programmes

Pre-PhD Programmes
- ➤ ICTP Postgraduate Diploma Programme
- ➤ ICTP/IAEA Sandwich Training Education Programme (STEP)

Degree Programmes
- ➤ Joint ICTP/SISSA PhD Programme in Physics and Mathematics
- ➤ Joint PhD Programme, Earth Science and Fluid Mechanics
- ➤ Joint ICTP/UniTS PhD Programme Physics & Engineering
- ➤ International Master, Physics of Complex Systems
- ➤ Master of Advanced Studies in Medical Physics
- ➤ Master in High Performance Computing