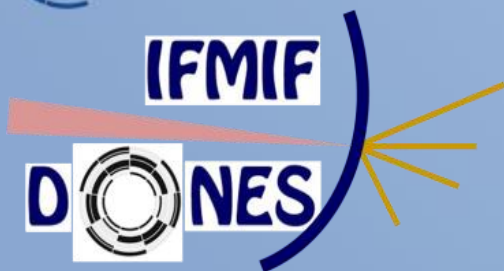


Town Meeting on the IFMIF/ELAMAT Complementary Scientific Program

Rzeszów University of Technology, Poland
April 14-15, 2016



Goals of the Workshop "Town Meeting on IFMIF/ELAMAT Complementary Scientific Program"

Rzeszów, 14-15 April 2016

Adam Maj



THE HENRYK NIEWODNICZAŃSKI
INSTITUTE OF NUCLEAR PHYSICS
POLISH ACADEMY OF SCIENCES



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Background:

- ❖ The ELAMAT consortium, coordinated by Rzeszow University of Technology, was established with the aim to make Rzeszow the host of IFMIF/DONES facility
- ❖ As part of the present deliberations about financing and siting a DONES facility, it is being considered **to extend the objectives of IFMIF-DONES beyond its standard program of material studies for fusion reactors.**
- ❖ To pursue this subject, the **Scientific Council**, chaired by Adam Maj (IFJ PAN Krakow) was established.

ELAMAT Scientific Council:

N. Alamanos (IRFU CEA Saclay)
F. Azaiez (IPN Orsay)
A. Becoulet (IRFM CEA Saclay)
M. Chorowski (Wrocław U. of Technology)
Ł. Ciupiński (Warsaw U. of Technology)
W. Dąbrowski (AGH U. of Science and Technology)
G. Fiorentini (INFN Legnaro)
Z. Fulop (ATOMKI Debrecen)
S. Gales (ELI-NP Bucharest)
M. Harakeh (KVI Groningen)
R. Heidinger (Fusion for Energy)

Angel Ibarra Sanchez (CIEMAT Madrid)
Lesław Karpiński (Rzeszów U. of Technology)
Stanisław Kistryn (Jagiellonian University)
Marek Lewitowicz (GANIL)
Adam Maj (IFJ PAN Kraków) Chair of the Council
Tomasz Matulewicz (Warsaw University)
Anton Moeslang (KIT Karlsruhe)
Błażej Skoczeń (Kraków U. of Technology)
Robert Stieglitz (KIT Karlsruhe)
Wojciech Szuszkiewicz (Univ. of Rzeszów and PAN)
Grzegorz Wrochna (NCBJ Świerk)

+ invited experts, participants

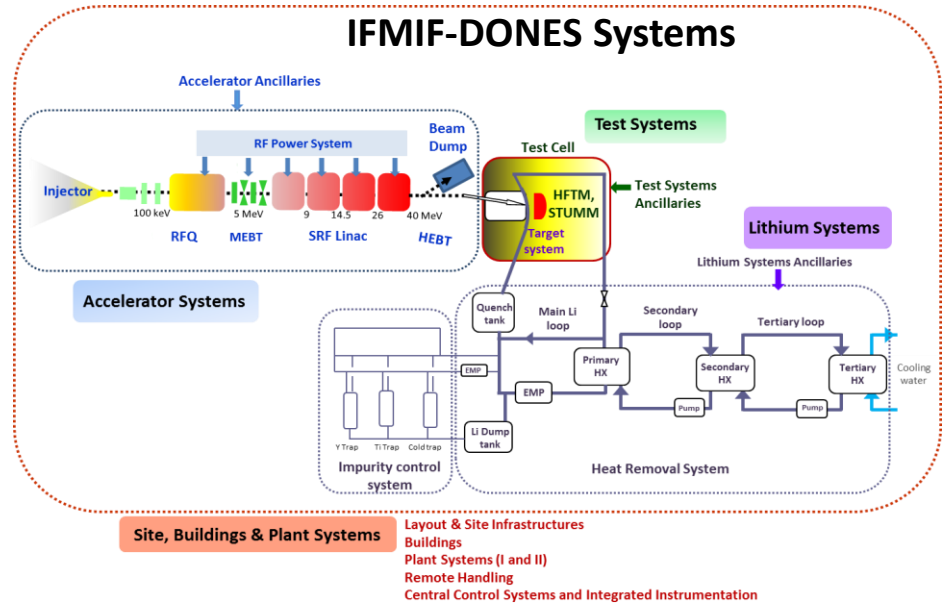
First meeting was in 2015 at IFJ PAN



General approach:

The Other Applications at IFMIF-DONES might take advantage of either:

- Neutron flux behind or at the High Flux Test Module
- A fraction of the deuteron beam deflected to another experimental station



Four main fields identified:

Applications of medical interest

Industrial application of neutrons



Basic physics studies

Nuclear physics and radioactive ion beam facilities

- ❖ This activity is supported by the ELAMAT Consortium which is preparing the bid to site IFMIF-DONES in Poland.

The main action:

Workshop "Town Meeting on the IFMIF/ELAMAT Scientific Program"

April 14-15, 2016, hosted by the Rzeszów University of Technology, Poland

<http://elamatscience.ifj.edu.pl>



- The conclusions of this Workshop (talks and discussions) will identify the most promising science projects that could be developed at IFMIF-DONES without compromising its main role.
- As a next step, a White Book on „IFMIF/ELAMAT Complementary Scientific Program” will be prepared by the Scientific Committee, with the leading role of the Conveners and Speakers of the Workshop



**White Book report on
„IFMIF-DONES for isotope production, nuclear
physics, materials science and other applications”**

Today

- 14:15 - 15:15** **Introductory session**
(chair: Krzysztof J. Kurzydłowski)
- 15:45 – 17:00** **Applications of medical interest**
(conv.: Sydney Gales, Marek Jeżabek)
- 17:00 – 19:30** **Nuclear Physics and Radioactive Ion facility**
(conv.: Marek Lewitowicz, Muhsin Harakeh)

Tomorrow

- 8:45 – 10:45** **Basic physics studies**
(conv.: Zsolt Fulop, Tomasz Matulewicz)
- 11:15 – 12:30** **Industrial application of neutrons**
(conv.: Władysław Dąbrowski, Krzysztof Kurek)
- 12:30 – 13:00** **General discussion**
(conv.: Faical Azaiez, Adam Maj)
- 13:00 - 13:15** Sydney Gales (IPN Orsay, ELI NP Bucharest) – **Concluding remarks**

Adam Maj (IFJ PAN Kraków) Chair

Leonard Ziemiański (Rzeszów University of Technology) Co-chair

Czesław Puchalski (University of Rzeszów)

Lesław Karpiński (Rzeszów University of Technology)

Marek Scholz (IFJ PAN Kraków)

Wojciech Królas (IFJ PAN Kraków) Scientific Secretary

Elżbieta Walewska (Rzeszów University of Technology)

Agnieszka Wysocka (Rzeszów University of Technology)

Monika Konieczka (IFJ PAN Kraków)