



The East-West-Outreach Nuclear Physics Network
- EWON -
A networking activity of EURONS I3



Minutes of the EWON meeting held in Zagreb
on October 20-21, 2006

at the Ruder Bošković Institute, Bijenička c. 54, Zagreb, Croatia

The main aim of the Zagreb EWON meeting was to review the present situation within the EWON activity, begin the preparation of the EWON reports, discuss possible future actions within the FP7 program to be presented at the forthcoming meetings of NuPECC (Bordeaux, 27-28 Oct. 2006) and EURONS (Groningen, 11-12 Dec. 2006). Representatives from all EWON member countries except Hungary and Slovakia were present. Apologies were received from Emil Betak (SAS-Bratislava, Slovakia), Dimitar Balabanski (INRNE-Sofia, Bulgaria), Borislav Slavov (Univ. of Sofia, Bulgaria), Miroslav Vesković (Univ. of Novi Sad, Serbia) and the members of the Network Coordination Committee M. Harakeh (KVI, Groningen) and N. V. Zamfir (NIPNE-Bucharest) for not being able to attend. The meeting was attended by M. Lipoglavšek, observer of IJS, Ljubljana, Slovenia. The program of the meeting is given in Annex I. A full list of participants is given in Annex II.

Participants discussed in detail various EWON activities and obligations within EURONS. Hence:

1) **R. Broda** presented the basic guidelines for producing the **1st EWON Deliverable** entitled *Research activities of Southeast and Northeast nuclear physics groups at the European LSF: Status and future perspectives*. From the discussion that followed the participants agreed on the following points:

- An Editorial Board will be formed to decide on the final form of the report. It will consist of the members of EWON Coordination Committee, i.e. R. Broda, J. Dobeš, M. Harakeh, S. Harissopulos and N. V. Zamfir.
- The report will be divided into sections describing the activity of the EWON nuclear physics groups within each of the 8 European Large Scale Facilities, separately. The conveners for each LSF assigned to collect the appropriate material and to prepare the corresponding section of the report are: A Maj for GSI, D. Balabanski for UCL-CRC and CERN-ISOLDE, S. Harissopulos for JYU-JYFL, B. Fornal for GANIL, D. Bucurescu for INFN-LNL, A. Krasznahorkay for RUG-KVI and J. Dobaczewski for ECT*. Effort will be made to obtain from the aforementioned LSF global data on the financial support granted via Trans-national Access or other resources to nuclear physicists from EWON countries.
- Two additional sections will be devoted to summarize the activity pursued in other non-LSF nuclear physics labs in- and outside Europe. The Editorial Board will act as a collective convener for these two sections.
- Most of the items of the corresponding questionnaire should be filled taking into account an average over at least last 10 years whenever information is available.
- The questionnaire for the preparation of the 1st EWON deliverable will be prepared by R. Broda and distributed before the EURONS PCC meeting in Groningen (December 11-12, 2006). It should include a template case (single group/laboratory in a single LSF) to facilitate the filling of the data from the various groups.

- The distribution of the questionnaire among the nuclear physics groups and insurance of timely responses will be the obligation of the EWON coordinators in each EWON country.

2) **S. Harissopulos** presented an update of the activities regarding the preparation of the **2nd EWON Deliverable** entitled: *A Mapping Study of Nuclear Science and Technology in the Southeast and the Northeast European Countries: Present and Future*. His presentation was followed by a detailed discussion. It was concluded that:

- To avoid redundancy, S. Harissopulos will unify the three basic Questionnaires of the WGs “Physics”, “Infrastructure” and “Education” into a single one, which should be distributed by November 15, 2006.
- The questionnaire should include items directed not only to institutions but also to groups. The completion by the groups is optional, however, for every EWON member institution it is mandatory.
- The questionnaire regarding Working Group 1 (**Physics**) contains three parts: a) Personnel, b) Research activities and major collaborations, and c) General information focused on funding modalities.

This questionnaire should reflect mainly the current status, although an average over longer period, especially for case b), may be appropriate.

- The items of the questionnaire regarding Working Group 2 (**Infrastructure**) should be treated with flexibility, since there are many details related to infrastructures that cannot be standardized.
- The questionnaire regarding Working Group 3 (**Education**) should reflect an average over longer period whenever information is available.
- The distribution of the questionnaire among the nuclear physics groups and guarantee of timely responses will be ensured by the EWON coordinators in each EWON country.

3) The **EWON Workshop will be held in Prague** in May 2007. Duration: 3 days; 2 days for the presentation of physics cases among which some will be selected as highlights of the EWON contribution to the European nuclear physics achievements and 1 day devoted to the Network management. The main convener is **J. Dobeš** from NPI, Rež.

4) The future participation of EWON nuclear physics groups in the **FP7** was discussed at great length. A. Maj presented a future project aiming at developing a multi-purpose Gamma-calorimeter that could be included in the “successor” of EURONS as a future JRA. Besides possible inclusion of EWON groups in future EURONS JRAs, participants discussed very extensively the option of forming a “Cluster Facility” based on the small-scale accelerator facilities operating in the EWON countries and preparing a case to apply for support in the framework of various EU funding instruments, such as “Transnational Access to Research Infrastructures”. Such a Regional (“Distributed”) User Facilities was strongly supported by all participants. For the preparation of the relevant case, the following points were outlined:

- The possible nodes of the “Cluster Facility” are Warsaw, Rež, Debrecen, Zagreb, Bucharest and Athens.
- Most of the regional facilities already offer up to 30% of their running capacity to foreign users. The research directions include **nuclear structure** and **nuclear astrophysics**. Activities related to **applications** of nuclear science are strongly present in the research programs of the EWON institutions and, therefore, should not a priori be excluded.

- In order to promote the idea of a “Cluster Facility”, the posting of beam-time schedules and beam-time requests in the web-pages of the EWON labs was strongly recommended.
- To meet the requirements for an application for funding within the upcoming FP7, the establishment of a common Project Advisory Committee (PAC) or equivalent for all members of the Cluster Facility is mandatory. Such a committee would be eligible for distributing the beam-time offered from each cluster-facility lab to external users.
- EWON facilities intending to participate in the “Cluster Facility” should prepare within a proper time a realistic estimate of its running costs including the related maintenance.
- Among the requirements for participating in the Cluster Facility is the availability of guest rooms or equivalent for the visiting groups.
- Theoretical activities should be considered as an important part of the proposed Cluster Facility and the option of supporting colleagues from Theory visiting the related labs should be included.
- The task of the preparation of the case of the Cluster Facility and the coordination of the necessary measures were assigned to A. Maj and S. Harissopulos by the participants unanimously.

5) Since S. Harissopulos cannot attend the next NuPECC meeting in Bordeaux he publicly asked R. Čaplar to inform NuPECC on the above conclusions of this EWON meeting.

DEADLINES

November 15, 2006 :	S. Harissopulos will distribute the (new) common questionnaire for the preparation of 2 nd EWON Deliverable to the national coordinators of the 3 WGs.
November 30, 2006	The material necessary to update the PowerPoint file related to the 2 nd EWON Deliverable (Mapping), which was prepared by S. Harissopulos and presented in the last (April 2006) EURONS meeting in Mainz, Germany, will be sent to him by all EWON-member institutions. This includes a brief description of the nuclear physics in form of keywords as well as pictures in jpeg format of the existing infrastructures. (NOTE: The PowerPoint file presented at Mainz, Germany, was distributed to all participants of the Zagreb meeting).
December 11, 2006	R. Broda will provide the questionnaire related to the preparation of the 1 st EWON Deliverable (including a template case).
February 2007	Meeting of the WG coordinators in Thessaloniki, Greece. G. Lalazissis (AUTH), the Greek Coordinator on “Education”, will act as convener on behalf of the EWON coordinators.
March 31, 2007	Each national EWON coordinator should send the questionnaires for the 1 st as well as for the 2 nd EWON deliverables filled to R. Broda and S. Harissopulos, respectively.
May 2007	EWON Workshop in Prague.

ANNEX I

Program of the EWON meeting held in Zagreb on October 20-21, 2006

Friday, October 20, 2006

Morning

- Welcome address
- Presentation of Ruđer Bošković Institute (K. Majerski)
- Presentation of Division of Experimental Physics (A. Švarc)

Session 1 (Chaired by Z. Basrak)

- Report on the last EWON meeting in Krakow (R. Broda)
- Report on the recent IUPAP/NuPECC activities of interest for EWON (R. Čaplar)

Session 2 (Chaired by D. Vretenar)

- EWON Deliverables and Reports (R. Broda, S. Harissopulos)
- Discussion on the progress of EWON activities (R. Broda, S. Harissopulos, WG-coordinators)
- Discussion on the implementation plan of EWON activities for the next period
- EWON Workshop in Prague (J. Dobeš)

Afternoon

- Tour of nuclear physics facilities at Ruđer Bošković Institute (RBI)
- Presentation of selected nuclear physics activities in Zagreb (RBI and Faculty of Science)
(Chair: R. Čaplar)
- 50 years of history and perspectives of few body physics (Ivo Šlaus)
- Reaction mechanism and nuclear structures explored in binary reactions (Suzana Szilner)
- Relativistic description of nuclear structure (Nils Paar)
- Experiments with light weakly bound projectiles (Matko Milin)

Session 3 (Chaired by J. Dobeš)

- Continuation of discussion on the status of EWON activities and the implementation plan:
Mapping studies, WQ Questionnaires, etc. (Contributions from WG members)

Saturday, October 21, 2006

Session 4 (Chaired by R. Broda)

- Discussion on future EWON activities within FP7 (A. Maj)
- Plan of the activities for the next year and deadlines.

ANNEX II

List of participants

1. Zoran Basrak (RBI, Zagreb, Croatia)
2. Ištvan Bikit (University of Novi Sad, Serbia)
3. Slobodan Brant (University of Zagreb, Croatia)
4. Rafal Broda (IFJ/PAN, Krakow, Poland)
5. Gheorghe Cata-Danil (Politehnica, Bucharest, Romania)
6. Roman Čaplar (RBI, Zagreb, Croatia)
7. Jožef Čomor (Vinča INS, Belgrade, Serbia)
8. Jan Dobeš (ASCR-NPI, Rež, Czech Republic)
9. M. Nizamettin Erduran (Istanbul University, Turkey)
10. Sefa Ertürk (Nigde University, Turkey)
11. Sotirios Harissopulos (INP, NCSR Demokritos, Athens, Greece)
12. Milko Jakšić (RBI, Zagreb, Croatia)
13. Alexandru Jipa (University of Bucharest, Romania)
14. Tasos Lagoyannis (INP, NCSR Demokritos, Athens, Greece)
15. Georgios A. Lalazissis (University of Thessaloniki, Greece)
16. Matej Lipoglavšek (IJS, Ljubljana, Slovenia)
17. Adam Maj (IFJ/PAN, Krakow, Poland)
18. Đuro Miljanić (RBI, Zagreb, Croatia)
19. Dušan Mrđa (University of Novi Sad, Serbia)
20. Pawel J. Napiorkowski (Warsaw University, Poland)
21. Nebojša Nešković (Vinča INS, Belgrade, Serbia)
22. Christo Protochristov (INRNE, Sofia, Bulgaria)
23. Chavdar Stoyanov (INRNE, Sofia, Bulgaria)
24. Ioan Ursu (NIPNE, Bucharest, Romania)
25. Dario Vretenar (University of Zagreb, Croatia)