

Minutes

of the Forty-Second Meeting of the Nuclear Physics European Collaboration Committee (NuPECC)

held on December 7 / 8, 2001 in Wien

Participants:

- J. Äystö (Chairman)
- Ch. Bargholtz
- T. Bressani
- J. Dobeš
- J. Durell
- G. Fortuna
- D. Goutte
- D. Guillemaud -Mueller
- D. Guerreau
- M. Harakeh
- W. Henning
- M. Huyse
- J. Jastrzebski
- G.-E. Körner (Scientific Secretary)
- H. Leeb
- R. Leonardi (ECT*)
- R. Lovas (EPS)
- G. Løvhøiden
- K. Riisager
- I. Sick A. Wagner Th. Walcher

B. Fulton, A. Fonseca, M. Lozano, G. van Middelkoop, W. Weise (ECT*) and N. Williams (ESF) could not attend.

Agenda

- 1.) Minutes of the Last Meeting
- 2.) Report of the Chairman
- 3.) Relation with ESF
- 4.) Impact - Applications – Interactions
- 5.) PANS & PANS-INFO
- 6.) New Long Range Plan
- 7.) FP6: Integrated Initiative
- 8.) Radioactive Beam Facilities
 - NuPECC Brochure
 - CASIM
- 9.) Miscellaneous
 - Nuclear Physics News
 - Impact of CERN Situation - ECFA
 - EPS
 - NuPECC Meetings
- 10.) Next meeting(s)

1. Minutes of the last meeting

The minutes of the forty-first meeting are agreed upon with the following addition: on page 4, under point 6, paragraph 3.3, “of NuPECC” has to be added after “lack of expertise”.

2. Report of the chairman

J. Äystö welcomes the new NuPECC Members, T. Bressani, who is replacing G. Ricco, and D. Goutte, who is replacing J. Martino, the EPS-NPB representative R. Lovas, and the guests J. Vervier, B. Harss, U. Renk and R. Reyerros-Bienert..

On June 10, 2001, J. Äystö visited the IN2P3 and discussed with D. Guerreau and J.-J. Aubert.

J. Äystö participated to the FINUPHY meetings on May 21/22, 2001, in Jülich and October 14/15, 2001, in Bayeux. A lack of funding arose in the “access” contracts due to the delayed start of FP6; the facilities have to live within the existing funding. For the “Integrated Initiatives” as foreseen in FP6, the Working Group set up at the last NuPECC meeting in Oslo on September 14/15, 2001, prepared a draft which will be discussed under point 7. Copies of the minutes of the FINUPHY as well as EURISOL meetings should be sent to all the NuPECC members.

On June 9, 2001, J. Äystö participated to the first meeting of the ECT* Board of Directors under the new director W. Weise.

J. Äystö was asked to participate in the review of the low energy nuclear physics programme in the US, launched by DOE and performed by NSAC, which took place in September. He presented the European programme there. The final report that came out of the NSAC meeting on November 15, 2001, was approved on November 29/30, 2001, and is available on the web under <http://www.krl.caltech.edu/nsac.html>.

As decided upon at the last NuPECC meeting, a letter of endorsement for the GSI future facilities as composed by J. Äystö, M. Harakeh and D. Guerreau was sent to W. Henning on September 28, 2001. A copy of the letter is enclosed.

J. Äystö participated to the meeting of the EURISOL Steering Committee, held on November 19, 2001, in Daresbury, where the second town meeting was discussed, which will take place on January 24/25, 2002, in Abano Terme, Italy. More information can be found on the web under <http://www2.ganil.fr/eurisol/2ndTownMeeting.html>. Four new radioactive beam facilities became operational this year: SPIRAL, REX-ISOLDE, ISAC and Oak Ridge.

The workshop on impact, applications, interactions which was held on November 21 - 23, 2001, in Dourdan (near Paris), France, will be discussed under point 4.

J. Äystö participated to a meeting celebration the 50th anniversary of radioactive beams, held in Copenhagen on November 23/24, 2001, which was organised by B. Jonson, K. Riisager and K. Langanke.

J. Äystö was invited to the visit of the Wissenschaftsrat at GSI as Member of the GSI Scientific Council on November 29, 2001, and interviewed there as European representative.

The PANS Book “Nucleus - a Trip into the Heart of Matter” has appeared and a copy is given to each NuPECC member.

3. Relation with ESF

N. Williams could not participate to the meeting, therefore there is no discussion on ESF matters.

NuPECC will contribute input for two “boxes” - on radioactive beams and ELFE - to the ESF Strategic Plan 2002 - 2006, a draft of this paper was mailed to all NuPECC members. A copy of the input is enclosed.

4. Impact - Applications - Interactions

D. Guerreau reports on the workshop held on November 21 - 23, 2001, in Dourdan (near Paris), France. A copy of the programme is enclosed. The draft reports of the three working groups were available on the NuPECC WebPage prior to the workshop and presented and discussed there. The workshop was attended by 165 participants from all NuPECC member countries including members of funding agencies from Czech Republic, Finland, France, Germany and the UK.

The reports should now be amended according to the discussions, e.g. similar chapters of introduction as in the "life science" part prepared, statistics of therapy successes added, concentrated on priorities in the “atomic physic” chapters etc.

A draft for the general introduction by NuPECC should be prepared by D. Guerreau, D. Guillemaud-Mueller, M. Harakeh, H. Leeb and J. Martino together for the next NuPECC meeting and endorsed there. The report should then be published with the help of the CERN infrastructure by summer 2002.

NuPECC would like to thank the conveners and their groups for their excellent work.

5. PANS & PANS-INFO

B. Harss and R. Reyer-Bienert give a presentation on the concept of “dialogue” and the realisation of PANS-INFO. A copy of the presentation is enclosed. The idea of having a “godfather/godmother” for each piece of information, a network of local “hosts” running a self-organising system (such as e.g. the GNU project) in the different languages and providing a “corporate identity” all over Europe is supported and should be pursued. The comments that have been received on the existing prototype www.pans-info.de are being implemented right now and a first presentable version will be available before the end of 2001. For the next NuPECC meeting, an estimate will be prepared on the cost and manpower need for a local/national host.

The second PANS workshop in 2001 was held in London on November 7 and 8; the minutes of this workshop can be found under www.pans-info.de.

The PANS Book “Nucleus - a Trip into the Heart of Matter” just came out and was presented there; a copy of the book is given to the NuPECC members. PANS-INFO was presented there in a similar way.

The PANS Exhibition “Radioactivity - a Facet of Nature” will go to Nantes and Cane, Bressanone and Wien, respectively. A CD of a virtual visit of the three exhibitions is being prepared by INFN.

In view of a possible PANS project on Energy issues, the discussion was opened by three guests: A. Bradshaw, C. Stephan and P. Hodgson. No conclusion was reached at the workshop, but a working group set up chaired by H. Leeb that encompasses the members with the most extreme views.

A working group preparing a CD based on the material in the book was set up, chaired by R. Mackintosh.

The next PANS Workshop will be held on June 7/8, 2002, in Vienna. A new application for Brussels will be prepared in 2002, co-ordinated by C. Bargholtz.

6. New Long Range Plan

J. Äystö reminds the NuPECC members on the 1997 report and its consequences. Copies of his transparencies are enclosed. The Long Range Plan 2002 should not be a simple update of the previous report, but a self-contained document that reflects on the next five years, but provides also a vision into the next ten to fifteen years.

An introductory chapter giving the coherent picture of nuclear physics as the science of strongly interacting many-body systems should then be followed by subchapters elaborating on more precise topics. The composition of the working groups for these subchapters could be as follows:

Nuclear Structure: P. van Duppen (Chair), M. Harakeh, K. Riisager (NuPECC), F. Azaiez (or B. Blank), G. de Angelis (or G. Raciti), J. Dobaczewski, H. Emling, K. Heyde, M. Leino, E. Moya de Guerra, D. Warner

Phases of Nuclear Matter: Y. Schutz (Chair), W. Henning, G. Løvhøiden (NuPECC), P. Chomaz, M. Di Toro, K. Eskola, P. Giubellino, D. Rischke, D. Rührich, J. Stroth

QCD: W. Weise (Chair), T. Walcher, I. Sick (NuPECC), F. Bradamante, J. Bijnens, M. Birse, M. Garçon, M. van der Haegen, G. van der Steenhoven, A. Zenoni

Nuclear Physics in the Universe: K. Langanke (Chair), M. Huyse, D. Guillemaud-Mueller (NuPECC), S. Gorielly, P. Corvisio, D. Frekers, W. Hillebrand, J. Kiener, O. Sorlin

Fundamental Interactions: K. Jungmann (Chair), H. Leeb, C. Bargholtz (NuPECC), H. Abel, L. Corradi, O. Navilliet-Cuncic, N. Severijns, L. Simons, C. Weinheimer

Applications: W. Kutschera (Chair), D. Guerreau, G. Fortuna (NuPECC), H. Flocard, W. Gudowski, T. Haberer, H. Hohmeyer, W. Kellerer, A. Koning, P. Mandò, P. Moretto, A. Paans, U. Wahl, M. Schippers

J. Äystö will contact the chairmen of the groups and ask them to take further action. Proposed group members should only be replaced if they are not available for the work. Involvement of funding agencies at this point should only be on an informal informative basis.

7. FP6: Integrated Initiative

The working group chaired by J. Vervier met on November 12, 2001, at CERN; the draft to be discussed was sent to all NuPECC members. The meeting planned in Brussels on November 7, 2001, was postponed to January 2002. J. Vervier is asked to find out whether two or more integrated initiatives in nuclear physics could be successful. NuPECC should play an advisory role, and I. Sick and T. Walcher are asked to contact J.-M. Laget in order to find out if the electron community is willing to put up a proposal in addition to the one following FINUPHY naturally that will be discussed at the next FINUPHY meeting on April 8/9, 2002, in Lisbon. At the next meeting, NuPECC will discuss the main orientation for RTD projects and names for a founding group for (an) integrated initiative(s).

8. Radioactive Beam Facilities

M. Huyse reports on the status of the NuPECC brochure; the front page has been changed completely, and comments after the last NuPECC meeting have been taken into account. Printing of 10000 copies will start soon. NuPECC thanks M. Huyse, J. Durell, D. Guerreau and B. Jonson.

J. Durell reports on the progress of the CASIM project; the science case is accepted and now the financial side is being reviewed. The final version of a letter from NuPECC as proposed by J. Äystö is endorsed and should now be sent to J. Taylor at the Office of Science and Technology. A copy of the letter is enclosed.

9. Miscellaneous

- The last meeting of the Editorial Board for Nuclear Physics News that was supposed to be held on September 15, 2001, in Oslo, was cancelled and postponed to December 8, 2001, right after the NuPECC meeting. The NuPECC members are asked to check the performance of their national correspondents and make propositions concerning articles. At the next NuPECC meeting, the procedure to appoint the members of the Editorial Board and an eventual term should be discussed.

- G. van Middelkoop provided a report on the last ECFA meeting that is distributed at the meeting. In addition to this text, A. Wagner reports on the financial problems that suddenly arose at CERN. Five internal and an external group, chaired by R. Aymar, are set up to come up with solutions within the CERN budget until June 2002. NuPECC should closely watch this process, and the NuPECC members are encouraged to informally contact their funding agencies and express the concern of the nuclear physics community about this situation.

- G. Løvhøiden distributes a text on the activities of the EPS Nuclear Physics Board.

- A. Wagner proposes that NuPECC meetings - similar to ECFA meetings - should start on Friday morning with a half-day presentation of the situation of nuclear physics in the respective country, including a student's view.

10. Next meeting(s)

The NuPECC meetings in 2002 will be held on

March 1 and 2 in Basel

June 28 and 29 in Prague (or Brussels)

December 6 and 7 in Mainz (or Brussels)

München, January 9, 2002



(Gabriele-Elisabeth Körner)