

The First Asia-Europe Physics Summit

“Physics towards Science Innovations”

Closing Remarks

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Convener of the session, Dr. Doris Neumann, (French Atomic Energy Commission (CEA) Ladies and Gentlemen,

Good afternoon.

It is indeed a great pleasure and honor to attend this significant event. I hope all of you have enjoyed this Summit and that it has yielded a fruitful exchange of ideas. Let me begin by expressing our sincere gratitude to AAPPS President, Prof. Jie Zhang, and EPS President, Prof. Maciej Kolwas for their initiative and efforts in producing this stimulating dialogue. And to extend our grateful thanks to the hosts, Nozaki, Mitsuaki, Motoyuki Ono (the JSPS President), Shoji Nagamiya (the JPS president), Bertrand Girard (Institute of Physics, CNRS, and Director) for their hospitality; and to ASEPS Secretariat for their excellent arrangement and hardworking over the months.

We are here with registration of more than two hundred distinguished scientists from more than 30 countries. It's our firm belief that, with continued dialogue and collaboration, sharing views and resources, *together we can* progress the Asia-Europe partnership in physics research; *we can* achieve the goal of establishing a balanced America-Asia-Europe triangle partnership for research; and *hopefully we can* develop a new dynamic of cooperation with countries around the world.

Before we proceed to review the list of scientific topics, we must bear in mind that research exploration operates at many frontiers simultaneously. *There are* many fundamental questions to be answered across research disciplines, across the borders in space and time. What is more, *there are* increasing new development of research appeared. It is opportune for us to strengthen collaboration with convergence of fresh insight and powerful new technologies.

As a council member of AAPPS, I join you today in enthusiastic support of the Asia-Europe Physics Summit (ASEPS) and I am sure that ASEPS has become one of the most important endeavors in the international research community. In what follows, I would like to share with you some of my observations and recommendations.

First, we have gathered a wide spectrum of participants for this Summit and the topics on the agenda are wide-ranging in terms of research scale and budget. We have been aware that the sense of being multinational, multicultural and multilingual is common to countries in Asia and Europe. There are gaps among the countries from various perspectives. In this regard, one of our major tasks beyond this Summit is to bridge the science and technology gaps and identify the best approaches. This endeavor will definitely contribute to the wellbeing of the world.

Second, we had heard a lot about BIG sciences, such as the searching of Higgs

of LHC in CERN. There are many other large scale international research programs that are aiming at a better understanding of the Nature, and searching for more useful applications of research. However, entire new horizons of research have appeared in the past few years. No single country that afford to manage the operation for Big sciences facilities. Neither does any country calim to do the world class researches alone. Scientists must move beyond individual efforts to take integrated efforts in addressing Grand challenges for Gib sciences. The programs of ALMA, ITER, TMT, ELI, even NeuroSPIN etc. are examples for these kinds. The experiences of doing those Big sciences programs have told us that *cooperation* is always better than *competition*. Therefore, another effort we should probe in the future is to find a better mechanism for cooperation in doing the Big sciences.

Third, we have heard about many promising progresses in areas of Nanotechnology and Biotechnology. Some of the experiments are small in size, but still the expenditure is huge. Hardly any country can afford. However we are all aware of the potential market values in these areas. We believe closer cooperation among European and Asian countries along this direction will be crucially important in the future. Exploring these exciting frontiers will rely upon strengthening the cooperation in physics research among European and Asian countries. We will certainly welcome the joint efforts made by our fellow partners from America. Added to that are active participation of decision makers from funding agencies, research organization and government as well as industry leaders around the world.

As pointed out in the round table discussion by Prof. Jie-Er Chen from China and Prof. Shoji Nagamiya from Japan. The Asian countries may not be well experienced in establishing the association like ASEPS. However we all believe that this significant initiative is needed and we are committed to support the endeavors for a better international interaction, planning and collaboration. As stated in the ASEPS announcement signed by Presidents of EPS and AAPPS, we will definitely try our best to enhance cooperation. We will form a TASK FORCE to realize the summaries of Round Table discussions. Hopefully when we meet again for the next ASEPS in Europe, there will be an impressive progress report from TASK FORCE. AAPPS will be happy to be one of the major players in this significant historical endeavaour.

Today's Summit is just a beginning. I want to thank all of you for your dedication to **ASEPS**. The program could not, and will not, proceed without your continued commitment, talent and enthusiasm. You and your institutions and the **EPS** and **AAPPS** are part of the rewarding and successful partnership that I hope will continue far into the future.

Thank you again for allowing me to report to you and to share these experiences. I would welcome any further occasions on which we might continue our dialogue.