

Foreword to the Proceedings of the XXII International Workshop on Deep Inelastic Scattering and Related Subjects (DIS2014)

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In 1964, M. Gell-Mann [1] and, independently, G. Zweig [2] postulated the existence of quarks, elementary particles hadrons should consist of. Gell-Mann took the name “quarks” from J. Joyce’s novel “Finnegans Wake”; Zweig had used the name “aces” but the former caught on. In 2014, 50 years after those historic publications, the “XXII International Workshop on Deep Inelastic Scattering and Related Subjects”, DIS2014, took place in Warsaw and was opened by a talk of the Nobel Prize Laureate, Jerome I. Friedman (MIT), whose pioneering investigations have been of essential importance for the development of the quark model.

Commenced in 1993 in Durham, a series of annual DIS workshops is a forum on which ideas and results concerning a parton structure of hadrons could be presented. In 2007 its name expanded to include “Related Subjects”, mostly due to the planned closure of HERA and a temporary slow down of parton physics research. Presently, in the advent of (at least one of) projects like LHeC in Europe and EIC in USA, the field approaches its new Renaissance.

The DIS2014 took place between April 28 and May 2 (Monday-Friday) at the University of Warsaw and was organised jointly by the Faculty of Physics, University of Warsaw (UW), National Centre for Nuclear Research (NCBJ) and by the Polish Physical Society. The Workshop was attended by nearly 300 participants from 32 countries who presented 24 plenary and 241 parallel talks, the latter grouped in 7 Working Groups. A traditional formula (plenary review talks on Monday, parallel ones on Tuesday, Wednesday and Thursday, summary talks from Working Groups and “future and perspective” presentations on Friday) was this year enriched by a popular, “open” session on Sunday, April 27, addressed to general public, high school and undergraduate students. The session consisted of popular talks given by Cecilia Jarlskog (Lund University) and by Frank Close (Oxford University), followed by a panel discussion where the aforementioned speakers were joined by the Nobel Laureate Jerome I. Friedman and students’ delegates. After some questions and answers the “great trio” got involved in a discussion between themselves, highly appreciated by all the present ones, including a large group of DIS2014 attendees. Organisation of similar sessions should definitely be continued at the future DIS conferences.

After all the WG summary talks on Friday, three “future and perspective” presentations caught a large attention of participants. These were: Particle physics from the European perspective, American particle and nuclear physics planning and Particle physics from the Asian perspective, by S. Bertolucci (CERN), H. Montgomery (Jefferson Lab.) and M. Nozaki (KEK/ACFA), respectively.

A success of the Workshop was due to a hard work and devotion of several persons and institutions: International Advisory Committee, Physics Programme Committee, the conference agency “Global Wings”, the administration and IT support staff (in particular Anna Kaczor, UW and our web administrator Sebastian Małek, NCBJ), many staff from the organising institutions, from the University of Warsaw, our students (undergraduates and PhD), our colleagues Małgorzata Kazana, NCBJ and Krzysztof Doroba, UW, who acted as photographers, and last but not least, the wonderful Local Organising Committee, always full of humour in the face of many crises.

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Below we present the proceedings of DIS2014, edited by Jan Kalinowski, University of Warsaw. Transparencies for all the talks are available on Indico, *via* the official conference website: <http://dis2014.fuw.edu.pl> which also contains all the detailed information concerning the Workshop.

References

- [1] M. Gell-Mann, Phys. Lett. 8 (1964) 214.
- [2] G. Zweig, CERN-TH-401 (1964); CERN-TH-412 (1964)