

Closing remarks

Uri Karshon

on behalf of the
International Advisory Committee of PHOTON 2009

Int. Conference on the Structure and Interactions of the Photon
including the 18th Int. Workshop on Photon-Photon Collisions
and the Int. Workshop on High Energy Photon Linear Collider

DESY, Hamburg

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This Workshop Series started in 1973 in Paris (Paul Kessler, Stan Brodsky, Peter Zerwas...) and was devoted to the hadronic interaction of photons in Photon-Photon Collisions at e^+e^- storage rings.

In the mid. 1990's it evolved to "Photon Structure and Interactions" with emphasis on Photoproduction results from the new HERA $e - p$ collider. It takes place roughly every two years.

A special Photon conference was held in 2005 in Warsaw (Photon 2005) to celebrate the Einstein centennial year "Hundred years of the Photon".

Even though physics done at DESY took a central role in this series ($\gamma\gamma$ at PETRA, γp at HERA), no Photon Workshop was held at DESY until this one.

The current Workshop integrated also the ongoing workshops on High-Energy Photon Linear Colliders.

The near future of this series will probably emphasize the following topics:

- Photoproduction and Photon-Photon collisions at the LHC
- Photons in astroparticles
- A possible low-energy Photon-Linear-Collider (PLC) prototype

In the far future (if at all) this series will concentrate on the PLC option in the ILC. This concept, based on background Compton laser scattering, was already discussed in this and many of the previous Photon Workshops.

It goes back at least to the 8th Photon-Photon Workshop in Shores, Israel in 1988. Prof. Hans Sens, one of the pioneers of the Photon-Photon Workshops, who sadly passed away half a year ago, related to this issue in some detail in his talk "Critical issues and prospects for future work".

He discussed possible Photon-Photon collisions at the SLC (50/50 GeV) and at CLIC (1/1 TeV) as well as $\gamma\gamma \rightarrow Higgs$ and other "futuristic" topics.

Valery Telnov et al. were working then already in Novosibirsk on this issue. Unfortunately at 1988 the Soviet Union still existed and no Russian physicist was allowed to come to the Workshop in Israel, even though they were invited.

On behalf of the IAC I would like to thank the PHOTON 2009 organisers Markus, Olaf, Thomas, Georg and their crew for the wonderful work they did which culminated in a very successful Workshop and to wish success to Krzysztof Piotrkowski and his Louvain group who volunteered to organise PHOTON 2011.

See you all in 2011 in Belgium.

Have a nice trip back home.