

Exhibition associated with European Optical Conference (EOC'83)

For better visualization of problems presented in the lectures and posters some achievements of six Polish scientific and industrial centres were presented in form of an exhibition.

The presentation included the optical and optoelectronic instruments, books and journals as well as index of Polish optical centres.

Exhibition of instruments

Optical instruments were presented by the following institutions:

- Polish Optical Works (PZO),
- Central Optical Laboratory (CLO),
- The Centre of Research and Development of Scientific Instruments and Science Teaching Aids (COBRABID),
- Institute of Plasma Physics and Laser Microfusion,
- Institute of Optoelectronics, Military Technical Academy,
- Telecommunication Institute.

Most of the instruments were presented by the biggest Polish manufacturer of optical equipment – PZO, Warsaw. Among others they included biological microscopes STUDAR and BIOLAR and new enlargers KROKUS.

BIOLAR microscopes presented were equipped with special facilities, e.g., CCTV, phase contrast device, micro-photography attachments and planachromatic optics (Fig. 1).

Simple STUDAR S microscope, enabling a large range of application, including bright and dark field, phase contrast and polarization operation was of a special interest.

The CLO presented the holographic equipment and two interesting microscopes: a surgical microscope for fluorescent investigations of the cancer cells (in vivo) and a scanning microdensitometer for biomedical purposes.

Among the instruments shown by COBRABID the most interesting were five student interferometers (Michelson, Fabry-Pérot, Mach-Zehnder, Sagnac and Fizeau models) and a high-class Nomarski interferometer model KB6305. The last one provided with CCTV equipment, has an accuracy of $\lambda/10$ and is designed for the study of objects with diameter up to 50 mm (Fig. 2).

The Institute of Optoelectronics of the Military Technical Academy presented two models of He-Ne lasers, while the Telecommunication Institute – a light-guide fibre splicing equipment. The Institute of Plasma Physics exhibits an azote laser and photodetectors.

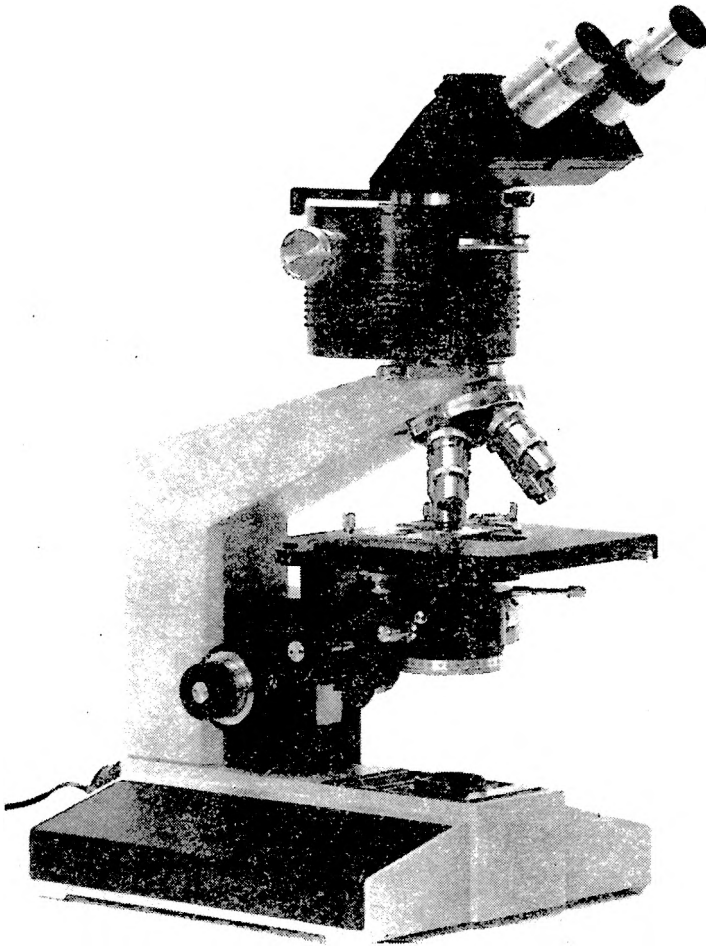


Fig. 1. Microscope BIOLAR-PI (PZO made)

Exhibition of books

Selected Polish books, journals and dictionaries concerning optics, written by Polish authors were gathered at a special stand. Among 100 odd items there was the most recent book by Maksymilian Pluta *Optical microscopy*.

Index of optical centres

Over 50 largest Polish scientific and industrial optical centres were marked on the map of Poland, allowing to recognize the scope of activity in that field.

According to opinions of the visitors, the most interesting instruments were the Nomarski interferometer model KB6305 and the interference-polarizing microscope model BIOLAR PI designed by Prof. Maksymilian Pluta.

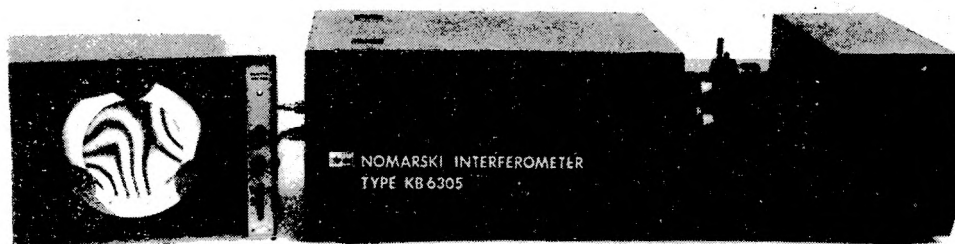


Fig. 2. Nomarski interferometer (COBRABID made)

The set of instruments shown at the exhibition became a significant supplement to the EOC'83 programme giving a short review of possibilities of the Polish scientific and industrial centres.

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Topic 1

**Laser spectroscopy, non-linear interactions of photons,
and recent optical problems in laser physics**