

## Display Optics'04 Seminar Report

The First International seminar on Display Optics (DISPLAY OPTICS'04) took place on October 18-20, 2004 at St.-Petersburg, Russia. The seminar was organized by Society for Information Display (SID), Russian SID Chapter, D.S. Rozhdestvensky Optical Society, D.I. Mendeleev Russian Chemical Society and S.I. Vavilov State Optical Institute (SOI) with the financial support from European SID chapter and Russian Ministry of Science and Education.

The DO'04 seminar co-running with the 6-th International Conference "Applied Optics" having been held since 1994, and the Sixth International Applied Optics Congress (OPTICS – XXI CENTURY) gave to the participants of the seminar unique opportunity to take part in discussions on most actual problems of modern applied optics. Our guests visited Applied Optics Plenary lectures devoted to new materials for the stimulated Raman emission lasers (*T.T. Basiev and V.M. Osiko from Prokhorov Institute of General Physics, Moscow*), Optical Fibers: Yesterday, Today and Tomorrow (*Yu.N. Kondratiev from Vavilov State Optical Institute, St.-Petersburg*) and Optical Spectroscopy of semiconductor nanostructures (*A.V. Fiodorov from Vavilov State Optical Institute*). Some of the problems discussed at the lectures have found their continuation at the sessions of DO'04 seminar.

The International DO'04 seminar took place at the centre of St.-Petersburg at the historical building of D.I. Mendeleev Russian Chemical Society, where great Russian Chemists read his lectures. Quite close the building of former Physical Institute is situated where V.K. Fredericksz first explained the nature of electro-optical effects in liquid crystals. During the opening ceremony the famous chemist Professor Roman Dabrowsky from Poland was awarded with V.K. Fredericksz Honorable Medal of Liquid Crystal Society SODRUZHESTVO (COMMONWEALTH).

The seminar gathered more than 50 participants from 6 European countries and different regions of Russia and Byelorussia. Among our guests there were scientists from Stavropol, Novosibirsk, Ulan-Ude, Ryazan, Kishenev, Saratov, Krasnoyarsk, etc. Four main topics were discussed during sessions: liquid crystal materials and LCDs, emissive displays and phosphors, display engineering and applications, 3D displays. The seminar program containing 36 oral and 18 poster papers and abstract book, distributed among the participant at the registration included main achievements of the authors. It was decided to prepare as a working document of the seminar a CD containing the author's presentations and to publish selected papers presented at the seminar in a special issue of the Journal of Optical Technology (*Optichesky Zhurnal*) № 7, 2005 (Russian-US journal published by Vavilov State Optical Institute, Russia and the American Physical Society).

For all the participants an excursion to memorial D.I. Mendeleev Museum was organized. The cultural program included also a concert of St.-Petersburg Philharmonic orchestra under the conduction of maestro V. Temirkhanov.

From an optimistic point of view there would be a great opportunity to meet our colleagues once more at the similar seminar in two years. We wish our colleagues bright achievements in their researches and investigations.

Prof. M.Tomilin, seminar chair.



A group of participants of DO'04 seminar in front of D.I. Mendeleev Centre