2013 Laudise Prize for Prof. C.T. Chen (Beijing)

The International Organization for Crystal Growth (IOCG) has awarded the 2013 Laudise prize to Prof. Chuang-Tian Chen of the Beijing Centre for Crystal Research and Development in the Technical Institute of Physics and Chemistry of the Chinese Academy of Sciences. The Laudise prize is awarded for significant technological contributions to the field of crystal growth and Prof. Chen receives this prize for his seminal contributions to the discovery and development of new nonlinear optical crystals. First he proposed and developed a theoretical model for understanding the relationship between the structures of these crystals and their non-linear optical properties. On the basis of this theoretical understanding he and his group discovered and developed a series of new borate non-linear optical crystals, such as BaB_2O_4 (BBO), LiB_3O_5 (LBO), and $KBe_2BO_3F_2$ (KBBF). Such crystals, grown by a newly developed flux method, now find widespread use for making UV and deep-UV radiation through second harmonic generation.

Prof. Chen (born in 1937) studied physics at the University of Beijing, is a member of the Chinese Academy of Sciences and is currently director of the Bejing Center for Crystal Research & Development. He is (co-)author of more than 150 scientific papers and has been awarded a large number of patents, both in China and in the USA.