

Editorial Forward Issue No. 2

October 1, 2007 (E2). In the 2nd Issue of the Forum, we include “News Highlights”, not yet present in the 1st Issue. Similar as the “Announcements”, these Highlights are published online whenever they arrive, so readers can expect updates at any time. We highlight papers and other publications (as submitted by authors or others), and also recent noteworthy events. In September and early October, quite many meetings, international and local, and also topical schools were held in Europe. On several of these we include brief accounts, including photos. First three highlights on papers recently published are also included. More such highlights are solicited.

We are especially happy to present here two invited critical reviews, which are directly complementary to those published in the 1st Issue. In the category “Physics of Superconductivity” (1) A. Kołodziejczyk authored there a review on the coexistence of superconductivity and itinerant ferromagnetism in the low-temperature superconductor Y9Co7 (review C1). In the same category, we now feature the review by P. Klamut, who reviews the coexistence of superconductivity and magnetism in ruthenocuprates, which are high-critical-temperature compounds (review C3).

In the category “Large Scale Applications” (6) of the first Issue, L. Rossi reviewed new and planned accelerators, which use superconducting magnets and cavities, with emphasis on the Large Hadron Collider (LHC) and future large European projects (review C2). Here, we feature the complementary review by L. Taviani, who reviews the most impressive cryogenic systems of LHC and of future large projects, including the ITER (review C4, categories 6 and 11).

In the “Science and Technology News” (STN) section, we now publish a short paper by H.-U. Klein *et al.*, who describe their compact superconducting synchrotron for the most promising proton therapy of cancer, which was also highlighted in Rossi’s review (paper ST7). Devred *et al.* report on progress in conductors for the Next European Dipole (NED), another large European project (paper ST5).

Two other STN papers (by Mikheenko *et al.* and Yates *et al.*) report on flux pinning and characterization of MgB₂, the first of these also accepted by *Appl. Phys. Lett.* (Papers ST6 and ST9). Furthermore, the readers can find an STN paper on coated YBCO conductor development at the European HTS company (EHTS-Bruker) – by A. Usoskin (paper ST8). Finally, superconducting electronics is represented paper ST10. Here, A. Klushin *et al.* describe the encouraging recent progress in the synchronization of large arrays of HTS grain boundary junctions, potentially useful in future programmable voltage standards.

We regret that this time no papers for the “Regional News” section were submitted. As one of the Forum’s goals is to inform on current European activities related to superconductivity, we especially encourage European Authors to provide us with brief reports on activities, progress and organizational changes in their institutions, large projects (consortia) and countries.

In the past few months, several potential authors signaled their hesitation to submit their contributions to the Forum, because of a possible conflict with the Copyright of refereed journals, to which the same or similar material was to be submitted. To alleviate any such concerns and provide the pertinent information, we introduced in the left column of the Forum

homepage the new item “Copyright of Refereed Journals”. Please consult it when needed. Our plans for the near future include the introduction of the search capability in this Forum. The search categories used in the “Guide to European Superconductivity-related Activities” are also those used in the Forum.