For Your Information

IMU Email Newsletter Launched

The International Mathematical Union (IMU) has launched a bimonthly email newsletter entitled IMU-Net.

The newsletter aims to improve communication between the IMU and the worldwide mathematical community by reporting decisions and recommendations of the IMU and by highlighting issues under discussion. In addition, IMU-Net will report on major international mathematical events and developments and on other topics of general mathematical interest. The editor of IMU-Net is Mireille Chaleyat-Maurel of the Université René Descartes in Paris.

There are two ways to subscribe to IMU-Net. One way is to go to http://www.mathunion.org/IMU-Net and click the "Subscribe" button. The other way is to send an email to imu-net-request@mathunion.org with the subject-line: "subscribe".

-From an IMU announcement

describes some of the mathematical tools used in largescale simulations.

The SCaLeS report makes recommendations for increased investment by the DOE in all aspects of large-scale simulations used in research in science and engineering, including algorithm research and other mathematical topics. The report recommends new investments to combine the power of scientific modeling, mathematical algorithms, computer architecture, and software development. Multidisciplinary teams, including mathematical scientists, are needed to bring the full capacity of computing power to bear on outstanding scientific problems, the report states.

Volume 1 of the SCaLeS report is on the Web at http://www.pnl.gov/scales/; when ready, Volume 2 will also be posted at this site. Further information may be found in an article by one of the editors of the SCaLeS report, David Keyes of Columbia University, which appeared in the September 2003 issue of *SIAM News*.

—Allyn Jackson

Report on Large-Scale Simulation

In August 2003 in Arlington, Virginia, the Office of Science of the Department of Energy (DOE) issued a report, *A Science-Based Case for Large-Scale Simulation*, informally called SCaLeS. This report makes recommendations for investments by the DOE in various research areas, including the mathematical sciences, that support large-scale simulations.

The executive summary of the report states: "The ingredients required for success in advancing scientific discovery are insights, models, and applications from scientists; theory, methods, and algorithms from mathematicians; and software and hardware infrastructure from computer scientists." One of the chapters of the report, "Enabling Mathematics and Computer Science Tools",