Dr. David Isaacson, from the Department of Mathematical Sciences at the Rensselaer Polytechnic Institute, recently visited campus from September 10-19, to present a short course to a number of interested faculty and graduate students. The title of his short course, *Mathematical problems in the treatment of cancer by chemotherapy*, was a 4-day series of lectures on how chemotherapy is used to treat cancer, primarily breast cancer. He explained how mathematical problems arise in the choice of drugs and in scheduling of treatment. The problems of which drugs to choose, which doses, what order to give the drugs, and the scheduling of treatment were also discussed from a quantitative point of view. The problem of choosing a treatment plan that will wipe out the cancer without wiping out the immune and other necessary systems were also presented from a mathematical point of view.

Dr. Isaacson is a world-renowned expert in mathematical modeling of disease and a pioneer and leader in the medical imaging technique of Electrical Impedance Tomography. He has more than 30 years of experience applying mathematics and electromagnetic theory to the design, constructions, and testing of patient monitoring systems in both the academic and industrial setting. He has recently spent time as a Visiting Research Scientist at the Ordway Cancer Research Institute. He is an Associate Editor of the journal *Technology in Cancer Research and Treatment*. 