

The 21 Club
Social, Dinner and a Talk
Tuesday February 15, 2011

The first meeting of the Spring Semester will begin with a wine and beer social at 5:30 PM in the UNM Student Union Building (Santa Ana Room A #3012). A buffet dinner will commence at 6:30 PM followed by an after dinner talk given by J. A. Panitz (Abstract on Page 2).

The buffet will consist of Caesar salad, fresh fruit salad, cheese lasagna, grilled Roma chicken, marinara sauce, sauteed squash and zucchini, mini Spinach-n-Pyllo, breadsticks, Italian creme cake, coffee, decaf, ice tea, ice water and your choice of red and/or white wine.



Go to <http://21club.unm.edu/sub.html> or mail your check (\$21 per reservation) to:

The 21 Club
Physics and Astronomy MSC07 42201
University of New Mexico
Albuquerque, NM 87131-0001

Note: to guarantee your reservation(s) your online payment or your check (payable to "The 21 Club") must be **received** by Monday, February 7, 2011.

Microscopes Without Lenses

J. A. Panitz

Emeritus Professor of Physics
Emeritus Professor of Cell Biology and Physiology
The University of New Mexico

The desire to see objects in ever finer detail has prompted continual advances in microscopy. Electrons, unlike visible light, can be used to image objects with near atomic detail. Fundamental electron imaging concepts will be demonstrated with a transmission electron microscope (TEM) constructed during the talk. The Field Electron Emission Microscope (FEEM) and the Scanning Tunneling Microscope (STM) will demonstrate a counterpoint to the usual technology.