

From the Bookshelf

ONE OF THE FIRST PROJECTS DR. Lucinda Chance tackled as the new dean of the College of Education was the creation of Professional Development Schools in Acadiana.

At the same time, she edited a book that is intended to help other educators do the same: *Professional Development Schools, Combining School Improvement with Teacher Preparation*.

"This book focuses on the 'how to' of developing professional development schools without external funding, the challenges of developing such a partnership, the pitfalls, and the benefits of such a model to schools and to the university," Chance said. Each chapter is co-authored by school and university faculty involved in

PDS program implementation.

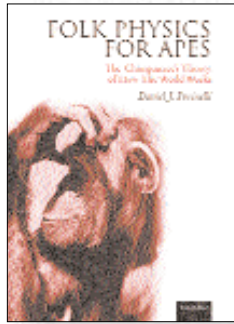
Professional Development Schools was published by the National Education Association Professional Library.

FOLK PHYSICS FOR APES HAS BEEN described as "a long awaited book by one of the leading and most controversial figures in animal behavior."

Its author is Dr. Daniel Povinelli, an associate professor who is co-director of UL Lafayette's Institute of Cognitive Science. He has earned international attention for his research, which challenges evolutionary biologist Charles Darwin's contention that there is no fundamental difference between the mental abilities of humans and other animals.

Folk Physics for Apes, The Chimpanzees' Theory of How the World Works, examines how apes perceive and understand the physical world.

"His book reads like a great detective story, in which each finding provides the clues that guide the next step of the inquiry. The result is a rich and fascinating portrait of the mind of a



species that is so like our own and yet so different," said Elizabeth S. Spelke, a professor in the Department of Brain and Cognitive Science at MIT.

Folk Physics for Apes was published by Oxford University Press.



LYNDA FRESE, AN ASSOCIATE PROFESSOR of visual arts, was awarded a fellowship at the Bogliasco Foundation near Genoa, Italy, in 1999.

Pagan Imaging presents 40 works on canvas that resulted from her studies there. It completes a project started at the Rockefeller Foundation's Bellagio Centre for the Arts and Humanities in 1997 entitled *Pagan Images from the Goddess to the Madonna*.

"Taking her themes from Mediterranean culture, she utilized montage techniques to communicate ideas concerning the transmission and renewal of ancient archetypes. Sources range from Palaeolithic cave paintings such as the images of female hands she saw at Peche Merle in Southern France, Minoan goddess sculptures sited at Knossos, through to the ubiquitous popular icons of brides and the Virgin Mary,

which can be seen virtually everywhere in Modern Italy," wrote Alison Smith in an introduction to *Pagan Imaging*. Smith is senior programme curator at the Tate Gallery in London.

Frese's collages combine her photographs with paint and organic materials for a multidimensional effect.

Pagan Imaging was published by Progetti Farnesiani.

COMPUTERS ARE FASTER AND MORE powerful than ever, but how can they be designed to "think" for themselves?

Dr. Magdy Bayoumi is co-editor of the first comprehensive book devoted to using models of the brain, combined with advances in microelectronics technology and circuit design, to answer that question. He is director of UL Lafayette's Center for Advanced Computer Studies and is the Edmiston Professor, Computer Engineering.

Learning on Silicon: Adaptive VLSI Neural Systems is co-edited by Gert Cauwenberghs, an associate professor of electrical and computer engineering at Johns Hopkins University.

Learning on Silicon was published by Kluwer Academic Publishers.

Bayoumi also co-authored *Specification and Verification of Systolic Arrays* with Nam Ling, an associate professor of computer engineering at Santa Clara University.

"In the past decade, the demand for high-speed computation in many digital and image processing applications has increased dramatically. In

many applications, systolic arrays proved to be effective answers to such challenges . . . A systolic array is a network of simple processors, which rhythmically compute and pass data through the system," the authors state in the book's preface.

Specification and Verification of Systolic Arrays was published by World Scientific Publishing Co.

