

INTRO UP AND UNDER

Hi, everybody. How's your robot? You don't have a robot yet? Well, you are not alone. Not many of us do have robots --- but I should emphasize the word "yet" when I say that. For as surely as there was an automobile in your grandparents' future, and a television set in your parents' future, there is a robot in the future of today's young people.

Robotics is what ~~scientists~~ ^{and engineers} call their field. And robotics is just one of the new and emerging fields in the broader area called electrical engineering. Today we'll be talking about electrical engineering --- double-E --- and all of its newest components with Dr. Stephen Shapiro, who chairs the Department of Electrical Engineering at the State University of New York at Stony Brook. You know, Dr. Shapiro, some of us laypeople may think of electrical engineering as a field where people lay out sources of electricity for factories and other buildings. That's not what electrical engineering is all about, is it?

INTERVIEW DR. SHAPIRO:

-- UG bulletin: research, teaching (roles)

computers

communications

microprocessors

computer networks

solid-state electronics

electronic circuits

networks

controls and systems

robotics

artificial intelligence

biomedical instrumentation

computer-aided design

WLR OUT

14:00

BRIDGE MUSIC UP AND UNDER

Hi. I'm Al Oickle, and I'm at the State University of New York at Stony Brook, talking with Dr. Stephen Shapiro about electrical engineering. Dr. Shapiro heads the electrical engineering department at Stony Brook. We've been talking about the field in general. Let's get specific, Dr. Shapiro, about what's taking place at your campus. Industry and campus are cooperating, I know, in research.

INTERVIEW DR. SHAPIRO:

- Research (11 business grants/contracts)
- Role of graduates, undergraduates
- Laboratories
- Teaching faculty (size, growth, variety)
- ~~-- Public service~~
- Future changes

29:00

OUTRO