

**Toledo IEEE Computer/Control Society Chapters**  
**Component-Based Software Engineering:**  
**Providing Intellectual Focus to CS1/CS2**

**Dr. Bruce Weide**

**Professor, Computer and Information Science**  
**The Ohio State University**

**Meeting Time and Place**

**Thursday, March 22, 2001**  
**6:00 PM - 6:30 PM . . . . . (Cash bar)**  
**6:30 - 7:30 . . . . . (Dinner)**  
**7:30 - 8:30 . . . . . (Speaker Presentation)**  
**Maumee Chop House**  
**1430 Holland Rd.**  
**Maumee, OH**  
**Non Members are Welcome to Attend!**

**Reservations**

**Reservations are required for this meeting and must be made by 5 PM on Monday, March 19, at (419) 893-3562 or by visiting our website: <http://www.ewh.ieee.org/r4/toledo/>**  
**Please specify your entree choice when making your reservation.**

**Menu Selections**

Prices below include non-alcoholic beverage, tax and 15% gratuity.

<b>Orange-Citrus Glazed Boneless Chicken Breast</b>	<b>\$20.00</b>
<b>Frenched Pork Chops</b> (Two 6 oz. chops, marinated grilled and served with sauteed apple, prune and sweet potato)	<b>\$20.00</b>
<b>Red Snapper</b> (10 oz filet, sauteed in extra-virgin olive oil w/ fresh tomato and garlic)	<b>\$21.00</b>
<b>Tenderloin Brochette</b> (with onions and peppers served on rice)	<b>\$19.00</b>

**Abstract**

The biology professor can start his first-year course by announcing, "Biology is the study of life. Everything we do in this class is directly related to this theme." What does the computer science professor announce at this point? Faced with this embarrassing question, over the past four years my colleagues and I have been engaged in the design, implementation, and evaluation of a new CS1/CS2 sequence at Ohio State University. We will discuss the philosophy that underlies these courses, how we have attempted to realize this philosophy in terms of content and pedagogy, and some observations resulting from this experience.

**The Speaker**



**Bruce Weide** and an associate, Tim Long, have received the first Computer Science and Engineering Undergraduate Teaching Award from the IEEE Computer Society. This award is given in recognition of outstanding contributions to undergraduate education through both teaching and service and for helping to maintain interest, increase the visibility of the Computer Society, and make a statement about the importance with which the society views undergraduate education. The award consists of a plaque and \$2000 honorarium.

Dr. Weide is co-director of the Reusable Software Research Group (RSRG) which operates under a charter to explore all aspects of "component-based software engineering." The group's approach involves a broad look at several related subareas: formal specification of functionality and performance, modular certification of correctness and efficiency of implementation, design of programming languages and systems, and adaptation of the RESOLVE technology to practice (originally in Ada, more recently in C++ and Java). Sponsors include the National Science Foundation, Lucent Technologies, and Microsoft Research.

Bruce received the BSEE degree at The University of Toledo in 1974. He was awarded the Ph.D. in Computer Science at Carnegie Mellon University in September 1978. Upon graduation from Carnegie Mellon Bruce joined the The Ohio State University as a faculty member in Computer and Information Science.

**March 2001 Meeting**

# **Toledo IEEE Computer/Control Society Chapters**

**March 2001 Meeting**