



COMPUTER AND COMMUNICATIONS SOCIETIES JOINT CHAPTER  
IEEE NJ COAST SECTION



Presents

## Architectural Techniques for Interoperability and Coexistence

by

**Robert Gezelter, Software Consultant**  
35-20 167th Street, Suite 215, Flushing, New York 11358

### ABSTRACT:

Ensuring long useful lives for hardware and software systems with the inevitable expansions, upgrades, and previously unconsidered interconnections to other systems is an architectural function. The results can be positive, resulting in long, low-cost system life, or negative leading to a system with significant limitations.

Often neglected are the architectural techniques and concepts, both in terms of what behaviors are specified, and in terms of what areas are left open. The impact of these areas on the longevity of the system life cycle is often not well appreciated.

We will examine how successful architectures have achieved longevity without major incompatible changes. In the end analysis, success for architecture is measured by its ability to assimilate changes in mission, implementation, interconnection, and scope without the need for incompatible changes. Put succinctly, 20 years into an architecture, success is measured by the ability of systems implemented on Day One to interoperate unchanged with systems implemented on Day 20369.

### BIOGRAPHY:

Robert Gezelter is a Senior Member of IEEE and a member of the IEEE Computer Society's Distinguished Visitors Program. Mr. Gezelter holds BA and MS degrees in Computer Science from New York University. He is a contributor to the *Computer Security Handbook* (2002) and the *Handbook of Information Security* (2005). He has spoken and written extensively on operating systems, networks, performance, security, tools, and similar areas.

Mr. Gezelter is in private practice, and maintains his offices in Flushing, New York. He can be contacted via his firm's www site at <http://www.rlgsc.com>.

**Date:** Wednesday, Feb. 8, 2006  
**Lunch:** 11:30 AM - 12:15 PM; **Presentation:** 12:15 PM - 1:00 PM

**Location:** Royal Buffet and Grill, 1375 Rte. 35 (intersection of Rte 35 and Kings Highway,  
in Middletown Plaza, next to ShopRite Store) Middletown, NJ. (732-275-1445)

**Cost (incl. lunch):** \$8.00 (for IEEE members -IEEE Membership ID required)  
\$11.00 (for non-members)

**RESERVATION:** Make reservations at website <http://ewh.ieee.org/r1/njcoast/>  
(click on "REGISTER for Talk" link, refresh your browser, and fill the form.)

**CONTACT:** Rulei Ting 732-420-3706 ([rt@ieee.org](mailto:rt@ieee.org));  
Sohail Jalal 732-420-6143 ([sohailj@ieee.org](mailto:sohailj@ieee.org));

Ying Cheng 732-420-2449 ([ycheng@att.com](mailto:ycheng@att.com))  
Jennifer Chen 732-949-8748 ([yychen@ieee.org](mailto:yychen@ieee.org))