



**Beverly J. Novak**

Beverly Novak is a Software Analysis in Communications & Modeling Group at Idaho National Engineering and Environmental Laboratory (INEEL). She has 31 years of experience in computer software, networking and communication systems and has been employed at INL for 30 years. Beverly is experienced in development of Intrusion Detection Systems (IDS) and their architectures, hostile “packet scrubbers” used in “Honeynet” security networks that trap new hacker exploits, and lead the coding of a cryptographic IDS under the INEEL discretionary research program. She is currently researching the porting of open source IDS tools to defend control protocols in the wireline side of next generation cellular networks, as well as new Voice-over-IP (VoIP), Session Initiation Protocol (SIP), gateway (H.323, Megaco), and related next generation multimedia protocols. Beverly has a working knowledge of Internet routing protocols and Transmission Control Protocol/Internet Protocol (TCP/IP) stack processing, and stays current on a variety of network technologies, including Sysadmin, Audit, Network, Security (SANS) Global Information Assurance Certification (GIAC) security and Global System for Mobile Communications (GSM) cellular base station / mobile switching center configuration training. She has acted as technical team lead for Systems and Network Development on a \$25M distributed database for a real-time wireless application for industrial plant tracking and processing, as well as the technical implementation of smart card authentication and digital signature systems. Past work also includes system administration for security and process alarm centers at secure nuclear processing centers.

Beverly holds a DOE “Q” (Top Secret) clearance, has a bachelor’s degree in computer science from Montana State University, and a master’s degree from University of Idaho. In her spare time plays the Oboe in the Firth Orchestra. She is a Distinguished Toastmaster.