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**Robert L. Carraway** is Associate Professor of Business Administration at the Darden Graduate School of Business Administration at the University of Virginia. His research interests are in developing and applying practical dynamic programming-based methodologies to combinatorial optimization problems.

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**Philippe Chrétienne** is Professor in the Computer Science Department of Pierre and Marie Curie University in Paris. Within the C.N.R.S. Laboratory, he manages a research team whose ongoing research concerns scheduling problems specific to parallel architectures, such as pipelines or distributed memory computers. **James Yves Colin**, a member of the team, got a Ph.D. in January 1990 on "Scheduling Problems With Interprocessor Communication Delays." He is doing post doctoral work at Oregon State University, where he focuses on real-time oriented scheduling problems.

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**John Hof** is Project Leader and **Tony Baltic** is an Operations Research Analyst in the Rocky Mountain Forest and Range Experiment Station, USDA Forest Service, Fort Collins, Colorado. Their paper reports an 8-year modeling effort to assess the multiresource production capabilities of the 191-million-acre National Forest System for national planning in the USDA Forest Service. Their continuing research interests include optimization approaches to a variety of forest management problems. The authors have published a related article, "Cost Effectiveness From Regional Optimization in the USDA Forest Service" (*Forest Science* **36**, 939-954).

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**John D. C. Little** is Institute Professor and Professor of Management Science at MIT. A member of the National Academy of Engineering, he has been President of ORSA and TIMS, and has been awarded ORSA's Kimball Medal. After early work in various OR areas, and with a special predilection for using computers, Little has devoted substantial effort to research in marketing. In the paper in this issue he uses this background against which to view future OR/MS opportunities in industry.

**Timothy J. Lowe** is the C. Maxwell Stanley Professor of Production Management at the College of Business at the University of Iowa. He also serves as Director of the College's Manufacturing Productivity Center. His research interests are operations management, location theory and the application of OR methods to production control problems.

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**Thomas L. Morin** is Professor of Industrial Engineering at Purdue University and principal investigator of Purdue's ONR sponsored \$4.25 million 5-year University Research Initiative on Computational Combinatorics. He is a Fulbright Scholar who is known for his work in dynamic programming.

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**Charles E. Noon** is Assistant Professor of Management Science at the University of Tennessee. His primary area of research is discrete optimization with a special emphasis on routing and scheduling. **James C. Bean** is Associate Professor in the Department of Industrial and Operations Engineering at the University of Michigan. His research interests include discrete optimization and infinite horizon optimization. Their

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**Robert D. Plante**, see **David F. Rogers**.

**David F. Rogers** is Assistant Professor and **James R. Evans** is Professor of Quantitative Analysis, both in the Department of Quantitative Analysis and Information Systems at the University of Cincinnati. **Robert D. Plante** is Professor of Management at the Krannert Graduate School of Management, Purdue University. **Richard T. Wong** is Member of Technical Staff in the Operations Research Department at AT&T Bell Laboratories. Their article is an outgrowth of studies performed at Purdue University on aggregation and disaggregation in optimization and Markov chains, and is from Professors Rogers' doctoral dissertation. Interested readers may want to request a working paper currently under review on aggregation/disaggregation for Markov chains co-authored by Professors Rogers and Plante.

**Garrett van Ryzin**, see **Dimitris Bertsimas**.

**Ron Shamir**, see **Dorit S. Hochbaum**.

**Jayavel Sounderpandian** is Associate Professor of Quantitative Methods in the Business School at University of Wisconsin-Parkside. His primary research interest is decision analysis. His article was motivated by the observation that the maximum value function had not been axiomatized. Happily, maximum axioms led to the new minsum value function.

**Lawrence Dale Thomas** is Senior Aerospace Engineer with the National Aeronautics and Space Administration at the Marshall Space Flight Center in Huntsville, Alabama. He is also a part-time faculty member in the Industrial and Systems Engineering Department at the University of Alabama in Huntsville. His paper results from efforts to reduce development costs through the utilization of commonality in the design of Space Station Freedom.

**Richard T. Wong**, see **David F. Rogers**.

**Wei-Ning Yang** is Assistant Professor in the Department of Information Management at National Taiwan Institute of Technology. **Barry Nelson** is Associate Professor in the Department of Industrial and Systems Engineering at Ohio State University, with a joint appointment in the Department of Statistics. Their paper is a portion of Dr. Yang's

dissertation research undertaken at the direction of Dr. Nelson. The research was motivated by the need for the exact statistical analysis under common random numbers, the only variance reduction technique that is widely used in practice.

**Yu-Sheng Zheng** is Assistant Professor of Decision Sciences at The Wharton School of the University of Pennsylvania. **Awil Federgruen** is Professor of Opera-

tions Management and Management Science at the Columbia University Graduate School of Business. Their paper was motivated by the analysis of stochastic multi-item joint replenishment problems. It is complemented by Zheng's paper, "A Simple Proof for Optimality of  $(s, S)$  Policies in Infinite Horizon Inventory Systems" (*J. Appl. Prob.*, to appear) and its results have been used in a joint paper analyzing inventory systems endogenously supplied by a production facility.

### Associate Scientist

**Research in decision technology with applications to management information systems clients in areas of strategic planning & scheduling. Conducts analysis of management and operational problems and formulates mathematical and simulation models of problem for solution by computers or other methods utilizing decision analysis, optimization theory, artificial intelligence, fuzzy reasoning, cluster analysis of data and modeling of stochastic processes. Analyzes problem in terms of management information and conceptualizes and defines problems. Develop forecasts based on modeling random processes by aggregating demand utilizing theory of clustering based on vector quantization. Prepares model of problem in form of several equations that relates constants and variables, restrictions, alternatives, conflicting objectives and their numerical parameters. Defines data requirements and gathers and validates information applying judgment and statistical tests. Specifies computational methods to be applied to model. Performs validation and testing of model to ensure adequacy, or determines need for reformulation. Prepares reports to management defining problems, evaluation and possible solution. Evaluates implementation and effectiveness of research. Combines graphic tools with the applications, trains clients in the features and functions of the new applications. REQUIRES: Must possess a Ph.D in Mechanical Engineering or Computer Science or Operations Research. Must possess experience in the following techniques and processes acquired through education or on-the-job training: deterministic and stochastic optimization methods, conventional and fuzzy decision analysis, theory of influence diagrams, cluster analysis and computer graphics. Education should include: statistics and probability theory; real analysis topology, differential geometry, advanced numerical analysis, combinatorial optimization, theory of algorithms and artificial intelligence. Must possess experience (through either work or education) in the use of the following computer languages: C, Fortran, Lisp, Unix and X Windows. 40 hour work week. Hours: 8:30 a.m. to 5:00 p.m. Salary: \$63,000 per year. Must have proof of legal authority to work permanently in the U.S. Interested applicants send resume to Illinois Department of Employment Security, 401 South State Street, 3 South, Chicago, Illinois 60605. Attention: Len Boksa. Reference #V-IL-2195-B. NO CALLS. AN EMPLOYER PAID AD.**