ICAIL 2011/DESI IV

Workshop on Setting Standards for Searching Electronically Stored Information In Discovery Proceedings

June 6, 2011

AGENDA

Session 1 (chair: Doug Oard)
0900 Welcome
0915 Keynote: "Improving Process Capability and Organizational Maturity" (Mark Paulk)
0945 Discussant (Jason Baron)
1015 Discussion

1030 Break

Session 2 (chair: Dave Lewis)
1100 Faster, Better, Cheaper Legal Document Review, Pipe Dream or Reality?
    (Svetlana Godjevac)
1120 Inconsistent Assessment of Responsiveness in E-Discovery: Difference of
    Opinion or Human Error? (Maura Grossman and Gordon Cormack)
1140 Retrospective and Prospective Statistical Sampling in Legal Discovery
    (Richard Oehrle)
1200 Research Paper Discussant (Eli Nelson)
1215 ISO 9001: A Foundation for E-Discovery (Chris Knox and Scott Dawson)
1235 Observations on ESI Search and GAAP/GAAS-Auditing of Financial
    Statements (Joe Looby)
1245 Discussion

1300 Lunch
Lunch breakout group session leads:
1: Jennifer Mason and Jeremy Pickens
2: Dave Lewis and Foster Gibbons
3: Debra Logan and Howard Sklar
4: Sean McNee and Amanda Jones
5: Chris Paskach and William Hamilton
6: Jack Conrad and Victoria Redgrave
7. Todd Elmer and Hans Henseler

Session 3 (chair: Laura Ellsworth)
1400 The Hon. Paul Grimm (via video link)
1420 Breakout sessions continue from lunch
1500 Breakout Group reports

1530 Break

Session 4 (chair and panel moderator: Debra Logan)
1600 Panel discussion
   (Laura Ellsworth, Doug Oard, Venkat Rangan, Bennett Borden)
1645 Open discussion
1715 Wrap up (Jason Baron)
1730 Adjourn
1745 ICAIL Welcome Reception (U Pitt Law School)
1930 No-host DESI dinner (Location TBA)

BIOS FOR SPEAKERS AND GROUP SESSION LEADS

Jason R. Baron
Jason R. Baron has served for the past 11 years as Director of Litigation for the National Archives and Records Administration. Between 1988 and 2000 he was a trial attorney and senior counsel in the Civil Division of the Department of Justice, litigating a variety of complex cases in federal court including involving the preservation of White House e-mail. In 2009 he was named Co-Chair of The Sedona Conference® Working Group on Electronic Document Retention and Production (WG1), and has served as Editor-in-Chief on three Sedona Commentaries, including the *Best Practices Commentary on the Use of Search and Information Retrieval Methods in E-Discovery* (2007)*,* the *Commentary on Achieving Quality in the E-Discovery Process* (2009), and the *Commentary on Finding the Hidden ROI in Information Assets* (2011). His latest law review is entitled "Law in the Age of Exabytes: Some Further Thoughts on 'Information Inflation' and Current Issues in E-Discovery Search," 17 *Richmond J. Law & Tech*. 9 (2011). He was a founding co-coordinator of the TREC Legal Track, as is a founding co-organizer of the "DESI" workshop series. He has been a Visiting Scholar at the University of British Columbia, and is currently an Adjunct Professor at the University of Maryland's graduate college of information studies. Mr. Baron also serves on the advisory board of the Georgetown Law Center Advanced E-Discovery Institute. Mr. Baron is a graduate of Wesleyan University and the Boston University School of Law.

Bennett B. Borden
Bennett B. Borden, a partner at Williams Mullen, co-chairs the e-Discovery and Information Governance Section. A litigation attorney, Mr. Borden focuses his practice on Electronic Discovery and Information Law. In addition to conducting both offensive and defensive electronic discovery in complex litigation, Mr. Borden has extensive experience counseling clients on the establishment of information governance and records management policies, procedures, and practices based on enterprise risk assessments. He regularly advises multinational clients regarding data privacy, security, and regulatory compliance. Mr. Borden also negotiates complex ESI protocols and confidentiality and protective orders. Mr. Borden is a member of the steering committee for the Electronic Discovery Section of the District of Columbia Bar. Mr. Borden is a frequent speaker on the topic of Electronic Discovery and Information Governance and the author of many articles. He is a guest lecturer on e-Discovery Law at the Georgetown University Law

Center and a member of Working Group I on Electronic Document Retention and Production, as well as Chair of the Cloud Computing Drafting Group for The Sedona Conference. He is also Vice Chair of the Electronic Discovery and Digital Evidence Committee of the Science and Technology Law Section of the ABA.

Jack G. Conrad

Jack G. Conrad is a Senior Research Scientist with Thomson Reuters Corporate Research & Development group. His research areas fall under a broad spectrum of Information Retrieval and NLP topics. Some of these include e-Discovery, document clustering and deduplication for knowledge management systems, sentiment analysis and document structure analysis for legal texts. Jack has researched and implemented components of WestlawNext, the newest generation of West's legal search engine, and PeopleMap, a very large scale Public Record aggregation system, and has developed and evaluated algorithms for real-time fuzzy duplicate detection in large document repositories. He has authored numerous technical papers and has been awarded several patents. Jack completed his graduate studies in Computer Science (Information Retrieval) at the University of Massachusetts–Amherst and in English (Linguistics) at the University of British Columbia–Vancouver. His undergraduate fields of study were Electrical Engineering and English at Marquette University in Milwaukee.

Gordon V. Cormack

Gordon V. Cormack holds the rank of Professor in the David R. Cheriton School of Computer Science at the University of Waterloo, in Canada. Professor Cormack is co-director of the Information Retrieval Group at Waterloo, and co-author of *Information Retrieval: Implementing and Evaluating Search Engines* (MIT Press, 2010). Professor Cormack also is the author or co-author of more than one hundred peer-reviewed articles on information retrieval, computer systems, and computer science education. Professor Cormack's current research interests involve the application of machine learning technologies to critical applications like spam filtering and e-discovery, as well as scientific evaluation of the effectiveness of such methods. For more than twelve years, Professor Cormack has been a program committee member of The Text Retrieval Conference ("TREC"), sponsored by the National Instituted of Standards and Technology. From 2005 through 2007, he was coordinator of the TREC Spam Track, and from 2010 through 2011, he has been a co-coordinator of the TREC Legal Track. Professor Cormack is a winner of the INFORMS 2009 Data Mining Contest and the ECML/PKDD 2006 Discovery Challenge. He was the Scientific Director of IOI 2010 – The International Olympiad in Informatics – a international computer science contest for high school students from 73 countries, which was featured in the December 2010 issue of *Wired Magazine*. Professor Cormack has coached Waterloo's ACM International Collegiate Programming Contest team for the past fourteen years, qualifying for the World Championships each year (the only team in the world to have done so), and winning the World Championship once, and the North American Championship three times.

Scott Dawson

Scott Dawson is the President of Core Business Solutions. Scott has more than 20 years' experience in manufacturing with the past 10 years consulting with organisations seeking IS0 9001 certification. Scott is also an active voting member of the US Technical Advisory Group (TAG) to ISO Technical Committee 176 (TC 176), which is responsible for drafting ISO 9001 and ISO 9004 on quality management systems.

Laura E. Ellsworth

Laura Ellsworth practices across a wide range of complex litigation matters, including toxic torts, product liability, insurance, intellectual property, employment, and ERISA. She has been involved in a number of multijurisdictional product liability and bankruptcy matters, several of which have resulted in significant appellate rulings on novel issues such as market share liability and public nuisance. Her work includes coordinating and litigating nationwide matters for various clients, and she has appeared in numerous federal and state courts throughout the U.S. In 2008, Ms. Ellsworth was a lead lawyer in the landmark public nuisance case in which the Rhode Island Supreme Court rejected an attorney general's attempt to

apply public nuisance law to the manufacture and sale of products. Previously, she represented the creditor's committee in the largest bankruptcy of a health system in the U.S. In 2008, she was named by Governor Edward Rendell as one of Pennsylvania's "Best 50 Women in Business."   Ms. Ellsworth has been involved extensively in electronic discovery and has served as a managing editor of *The Sedona Principles: Best Practices Recommendations and Principles for Addressing Electronic Document Production*. She currently serves on the Firm's e-Discovery Committee and has participated actively in federal and state rulemaking in this area. Laura is also Partner-in-Charge of the Pittsburgh Office.   She graduated from Princeton University and the University of Pittsburgh School of Law (J.D. magna cum laude; Order of the Coif; University Scholar; Law Review).

Todd Elmer

Todd Elmer is Senior Director of Communications and Public Affairs at H5. Among his activities, he directs H5's work with The Sedona Conference, the National Institute of Standards and Technology's TREC Legal Track, and created and directed the 2007 H5-Georgetown Law thought leadership Summit, moderated by Professor Arthur R. Miller and featuring Justice Stephen Breyer of the United States Supreme Court. Prior to joining H5, Todd designed corporate communications and public affairs strategies for a wide variety of Fortune 500 corporations and national political organizations. He also practiced law within the public and private sectors, as an international trade attorney at the U.S. Department of Commerce and in the Washington, D.C. office of Kaye Scholer. From 1998 through 2000, Todd served as a member of White House Advance teams at numerous events for President Clinton and Vice President Gore. During the 2000 presidential campaign, Todd served as Vice President Gore's National Director for Business Outreach and as an attorney in the Florida recount. In 2004, he served as a co-chair of the national finance committee for Kerry-Edwards and in 2008, he was a member of the Law and Judiciary policy committee for Barack Obama's presidential campaign. Todd holds a Juris Doctor, with distinction, from Emory University School of Law and a Bachelor of Arts degree, cum laude, from Furman University.

Foster Gibbons

Foster Gibbons is Vice President, Legal Solutions, at Integreon, responsible for Global Managed Document Review Solutions.   As a litigator, Mr. Gibbons gained significant experience in e-discovery and document review management over the course of several complex litigations. He joined Integreon from Pfizer, where he held the position of Corporate Counsel from 2006-09, there serving as legal lead of Pfizer's In House Discovery group ('Discovery Response Team', or 'DRT'), following several years representing Pfizer on complex pre-trial discovery projects at Kaye Scholer LLP. At Pfizer, Foster held responsibility for coordinating Pfizer's litigation discovery efforts, and helped expand DRT's influence and role as a cross-divisional resource for the collection, assembly, processing, review and production of company information for ongoing government investigations, compliance reviews, antitrust filings, and other broadly based contexts. Foster has since written and spoken widely on the subjects of Best Practices and on practical considerations in e-discovery, from defensibility to overcoming the challenge of European data privacy rules, to vendor selection and budgeting, and has authored articles and white papers on e-discovery planning and design, and has been a participating member of EDRM (Electronic Discovery Reference Model). At Integreon, Foster has held primary responsibility for designing and propagating a global model for document review management and for fashioning best-in-class processes in the area of document review and discovery solutions.

Svetlana Godjevac

Dr. Godjevac consults for law firms and corporations in electronic discovery process creation and efficiency, risk mitigation, and litigation and regulatory preparedness related to digital data and electronic records. She also provides expertise in search query customization, information extraction, and data analysis. She received her PhD in Linguistics from Ohio State University, and has taught graduate and undergraduate courses at several universities, including Brown University and UC San Diego. She has published numerous articles in theoretical linguistics and eDiscovery, and is the author of the research monograph "Focus Projection in Serbo-Croatian."

The Hon. Paul W. Grimm

Paul W. Grimm serves as a full-time Chief Magistrate Judge for the United States District Court for the District of Maryland. He was appointed in February 1997. Judge Grimm currently serves as a member of the Advisory Committee for the Federal Rules of Civil Procedure. Additionally, Judge Grimm is an Adjunct faculty member of the University of Maryland School of Law, where he teaches trial evidence, pretrial civil procedure, and scientific evidence. Judge Grimm is a frequent lecturer at CLE programs on issues regarding evidence and civil procedure, and has published several books and numerous articles on these topics. In 2002 Judge Grimm was awarded the Outstanding Adjunct Professor of the Year award by the University of Maryland School of Law; in 2001 he was awarded the Maryland Bar Foundation's Professional Excellence Award for the Advancement of Professional Competence; and in 1998 he received the Maryland Institute for Continuing Professional Education of Lawyer's Distinguished Service Award. Before becoming a Magistrate Judge, Judge Grimm was in private practice in Baltimore for thirteen years, handling commercial litigation. He also served as an Assistant Attorney General for the State of Maryland, an Assistant State's Attorney for Baltimore County, Maryland; and as a Captain in the United States Army Judge Advocate General's Corps. In 2001 Judge Grimm retired as a Lieutenant Colonel from the United States Army Reserve. Judge Grimm is a graduate of the University of California, and the University of New Mexico School of Law.

Maura R. Grossman

Maura R. Grossman is Counsel at Wachtell, Lipton, Rosen & Katz, where she advises the firm and its clients on legal, technical, and strategic issues involving electronic discovery and information management, both in the U.S. and abroad. Maura was appointed by Chief Administrative Judge Ann Pfau to serve as co-chair of the E-Discovery Working Group advising the New York State Unified Court System, and by District Judge Shira A. Scheindlin to serve as a member of the Discovery Management and E-Discovery Issues Subcommittee of the Attorney Advisory Group to the U.S. District Court for the Southern District of New York. She also is involved in other initiatives to provide training on e-discovery to federal and state court judges. Since 2010, Maura has served as a coordinator of the Legal Track of the National Institute of Standards and Technology's Text Retrieval Conference ("TREC"), a joint government/ industry/academic research project studying the application of automated information retrieval technologies to e-discovery, and as an adjunct professor at both Rutgers School of Law–Newark and Pace Law School, where she teaches courses on e-discovery. Maura is a member of The Sedona Conference® Working Groups on Electronic Document Retention and Production ("WG1"), and on International Electronic Information Management, Discovery and Disclosure ("WG6"). She serves on the Advisory Boards of BNA's *Digital Discovery and E-Evidence Report* and the Georgetown University Law Center's Advanced E-Discovery Institute. In addition to her law degree from the Georgetown University Law Center, Maura also holds an M.A. and Ph.D. in Clinical/School Psychology from Adelphi University.

William Hamilton

Bill Hamilton is board certified in business litigation and intellectual property by The Florida Bar. His work includes complex business litigation in the areas of contract, software and technology disputes, intellectual property (copyright, trademark, patent and trade secrets law), e-commerce, data security, telecommunications, trade regulation and unfair trade practices. Bill is also a neutral, arbitrator and mediator for the World Intellectual Property Organization, the International Trademark Association and the American Arbitration Association. Bill is the Chair of Quarles & Brady's e-discovery practice and frequently writes for its blog "E-Discovery Bytes." Bill teaches Electronic Discovery and Digital Evidence as an adjunct professor at the University of Florida College of Law and is co-author of the LexisNexis Practice Guide "Florida E-Discovery and Evidence" to be published June 2011.

Hans Henseler

Hans Henseler received his masters degree in Computer Science from Delft University of Technology and holds a Ph.D. on Artificial Neural Networks from the University of Maastricht in the Netherlands. In 1992 he founded the department of forensic computer science at the Netherlands Forensic Science institute and in 1996 he was vice chairmen of the International Organisation on Computer Evidence (IOCE). From 1998-2000 he was director at the Netherlands Institute of Applied Research, information systems division which specializes in knowledge management, language technology, image processing and logistical information systems. From 2000-2006 he was chief technology officer at ZyLAB and responsible for the development, testing and support of ZyLAB's E-Discovery software suite. In 2006 Hans became director Forensic Technology Solutions at PricewaterhouseCoopers. In 2009 Hans became partime professor in E-Discovery at the Amsterdam University of Applied Sciences and in 2010 he left PwC and is currently managing partner at Fox-IT Forensics and specialises in commercial E-Discovery services and solutions.

Amanda Jones

Amanda Jones oversees Xerox Litigation Services' (XLS) automated document review and search consulting offerings. She assists XLS' clients in formulating and validating defensible information retrieval strategies to maximize the efficacy of their document review projects. Prior to XLS, Amanda worked as a manager and project lead for the Linguistic Technology Group at H5 where she designed and supervised the implementation of linguistic models for document categorization. She holds a Master of Arts degree in Linguistics from the University of California, Los Angeles and a Bachelor of Arts degree in Linguistics from the University of Texas, Austin.

Chris Knox

Chris Knox is the Chief Information Officer for ieDiscovery. Chris has more than 16 years of project and resource management experience. He is responsible for the implementation of strategic initiatives and IT expenditures, as well as the development of company-wide operating procedures. Chris graduated from the University of Texas at Austin with a degree in Engineering and received his MBA from Syracuse University. Prior to IE Discovery, Chris designed and implemented data collection networks for software developers and Fortune 500 corporations. Chris also previously created Geographic Information Systems for large municipalities, specializing in the development of algorithms for hydraulic models.

David D. Lewis

David D. Lewis, Ph.D. (www.DavidDLewis.com) is a Chicago-based consulting computer scientist working in the areas of information retrieval, data mining, natural language processing, and the evaluation of complex information systems. He formerly held research positions at AT&T Labs, Bell Labs, and the University of Chicago. He has published more than 75 scientific papers and 8 patents, and was elected a Fellow of the American Association for the Advancement of Science in 2006.

Debra Logan

Debra Logan, VP and Distinguished Analyst, has been with Gartner for ten years.   Currently, she is doing research in the area of legal IT, investigating the effects of regulations and rules changes on the IT infrastructure, applications and staffing. Debra's other research interests included systems of knowledge organization, taxonomies and metadata, content, document and records management, process management and the application of enterprise information management technologies and concepts in business.   She is leading the Enterprise Information Management research community at Gartner and covering related technologies The EIM community is working with leading global companies to investigate how enterprise architecture concepts can be extended to the world of structured and unstructured content. This research is demonstrating how treating information as an asset can cut IT costs and fuel competitive advantage. Prior to joining Gartner, Debra had her own consulting company, assisting clients in Europe with document and knowledge management issues. Debra began her career at the University of Pittsburgh's Learning Research and Development Center (LRDC). She was a leading member of a team that developed an AI-based Intelligent Tutoring System for the US Air Force. Debra joined Carnegie

Group in 1988. CGI was a start-up company that developed knowledge-based systems. Debra has done academic research in human learning, computer human interaction and artificial intelligence. She has authored or co-authored a number of papers and given presentations on these subjects at conferences in the US and Europe. She graduated Magna cum Laude from Washington and Jefferson College with a Bachelor's degree in Psychology and History. Ms. Logan also obtained a Master of Science degree in Computer and Information Science from the University of Pittsburgh.

Joe Looby

Joe Looby is a senior managing director in the FTI Technology segment, delivering consulting expertise and advanced technology for investigations, antitrust and complex litigation matters, and is based in New York. He has provided expert testimony and consulting on economic and technology issues and appeared before regulatory agencies on diverse matters. Mr. Looby has spoken and written extensively on eDiscovery, technology, and forensics. Mr. Looby is a contributing author and lecturer at The Sedona Conference, for projects including: Search & Retrieval Sciences; and, Achieving Quality in eDiscovery. Joe has also participated in studies on search technology effectiveness, sponsored by the National Institute of Standards and Technology (NIST) and DOD Advanced Research and Development Activity (ARDA). He has diverse industry experience, and most recently served as a forensic investigator for the Trustee in United States Bankruptcy Court matter *SIPC v. Bernard L Madoff Investment Securities, LLC*. Mr. Looby is a former U.S. Navy JAG Lieutenant, an experienced regulator, and is the patented co-inventor of the "system, software and method for examining a database in a forensic accounting environment." Joe has a B.A. in economics from Fordham University and a J.D. from Union University School of Law. He is a certified fraud examiner, a member of the Association of Certified Fraud Examiners and is licensed to practice law in New York and Connecticut.

Jennifer Keadle Mason

Jennifer Keadle Mason is the Managing Partner of the Pittsburgh office of Mintzer, Sarowitz, Zeris, Ledva & Meyers and founder of the firm's E-Discovery Group. She received her Bachelor's Degree in Political Science from the University of Richmond in 1990 and her Law Degree from West Virginia University in 1994. Her practice is currently in the areas of commercial, professional, and catastrophic loss litigation. She specializes in E-Discovery, and is a current member of the Sedona Conference and Working Group 1 on Electronic Discovery. She is also a current member of the American Bar Association; Defense Research Institute (DRI); Federal Bar Association; and ARMA International. Ms. Mason has provided CLE's to numerous organizations including the ABA Section of Litigation, ARMA, DRI, and the Federal Bar Association. She has been published in "For The Defense," a monthly publication of the Defense Research Institute. Prior to practicing law, Ms. Mason worked for two insurance companies, State Farm Insurance Company and Oak Casualty. She was a Bodily Injury/Property Damage adjuster for three years and later represented clients on behalf of these carriers. Ms. Mason is admitted to practice in the State and Federal courts of Pennsylvania and West Virginia, and the U.S. Supreme Court.

Sean McNee

Sean McNee is a Senior Computing Research Scientist at FTI Consulting, where he performs basic and applied research in visual analytics, information filtering/retrieval, data mining, user modeling, computer-supported cooperative work, and human-computer interaction related to the area of legal e-discovery. He received his Ph.D. from the Department of Computer Science and Engineering at the University of Minnesota—Twin Cities. A winner of the 2010 ACM Software System Award, Sean is a member of GroupLens Research where he performed research in the areas of recommender systems and personalization.

Eli Nelson

Eli Nelson is a Senior Staff Attorney at Cleary Gottlieb in Washington, D.C., with 14 years of experience in litigation and technology. At Cleary, Eli is responsible for testing new technologies and review pproaches and managing large scale review projects in efficient and cost-conscious ways. In this capacity, as well as through his participation in various conferences, including the TREC Legal Track (2009 and 2010) and LegalTech, he has worked with a number of vendors, industry peers, and academics in investigating the viability of technology-assisted approaches to document review. He received his J.D. from Tulane University Law School, and studied communication theory as an undergraduate at Tulane.

Douglas W. Oard

Douglas Oard is a Professor at the University of Maryland, with joint appointments in the College of Information Studies and the Institute for Advanced Computer Studies (UMIACS) and affiliate appointments in the Computer Science Department and the Applied Mathematics and Scientific Computation Program. Dr. Oard earned his Ph.D. in Electrical Engineering from the University of Maryland, and his research interests center around the use of emerging technologies to support information seeking by end users. Recent work has focused on interactive techniques for cross-language information retrieval, searching conversational media, and leveraging observable behavior to improve user modeling. Dr. Oard is the only coordinator of the TREC Legal Track to have served in that role since its creation. Additional information is available at http://terpconnect.umd.edu/~oard.

Richard Oehrle

Dick Oehrle is Chief Linguist at Cataphora Legal, a division of Cataphora, Inc., a startup company focused on investigation and analysis of large electronic datasets. At Cataphora, Dick has led electronic discovery projects involving such diverse industries as chemicals, software, telecom, pharmaceuticals, and financial services, as well as investigations of electronic data related to financial fraud and stock option backdating. In the course of this work, he has designed and implemented a variety of systems to enhance the quality of categorization and the insight of analysis, involving: grammatical infrastructure for English, French, and German search support; detection and analysis of emotional expresssion; boilerplate privilege disclaimer isolation; rapid prototyping of complex searches. Prior to joining Cataphora, Dick was a senior linguist at YY Technologies, a language technology company. And before that, he was Professor and Head of the Department of Linguistics at the University of Arizona. He also held teaching positions or visiting positions at Stanford University, Rijksuniversiteit Groningen, University of Pennsylvania, UCLA, Eberhard Karls Universität Tübingen, as well as teaching summer school courses the European Summer School for Logic, Language, and Information (ESSLLI). Dick is a past president of the Association of Computational Linguistics Special Interest Group in Mathematics of Language and currently serves on the National Conference of Lawyers and Scientists, a joint committee of the American Association for the Advancement of Science (AAAS) and the American Bar Association (ABA). He holds an undergraduate degree in English (Harvard), a master's degree in English and Comparative Literature (Columbia), and a Ph.D. in linguistics (MIT).

Chris Paskach

Chris Paskach is the National Service Network Leader for Forensic Technology Services for KPMG LLP. He coordinates the services and technologies offered by KPMG's Records and Information Management (RIM), Digital Evidence Recovery (DER), and Evidence and Discovery Management (EDM) services teams, including the eDiscovery processing, analysis and hosting services provided from KPMG's Cypress Technology Center (CTEC) in Cypress, California. Mr. Paskach regularly consults with counsel on electronic discovery and discovery management issues related to investigations, litigation, commercial disputes and business claims. He has extensive experience in information planning and systems design to support the investigation and dispute resolution processes. He has more than 35 years of experience assisting companies in a wide range of industries, including financial services, consumer products, pharmaceuticals, telecommunications, manufacturing and distribution. His experience includes deposition and expert testimony in both federal and state courts.

Mark Paulk

Dr. Mark Paulk is a Senior Systems Scientist at the Institute for Software Research at Carnegie Mellon University, where he investigates best practices for software engineering and sourcing of IT-enabled services. From 1987 to 2002, Dr. Paulk was with the Software Engineering Institute at Carnegie Mellon, where he led the work on the Capability Maturity Model for Software. He was co-project editor of ISO/IEC 15504-2 (Software Process Assessment: Baseline Practices Guide) and a contributor to a variety of ISO and IEEE standards. Dr. Paulk's research interests center on empirical methods, high maturity practices, statistical thinking, and agile methods. Dr. Paulk received his PhD in industrial engineering from the University of Pittsburgh, his MS in computer science from Vanderbilt University, and his BS in mathematics and computer science from the University of Alabama in Huntsville. He is a Fellow of the ASQ, an ASQ Certified Software Quality Engineer, and a Senior Member of the IEEE.

Jeremy Pickens

Jeremy Pickens is a Senior Applied Research Scientist at Catalyst Repository Systems. He has a PhD from the University of Massachusetts Amherst, having studied at the Center for Intelligent Information Retrieval (CIIR). Dr. Pickens' research area is information retrieval, in particular algorithms that support iterative and interactive retrieval. He has worked in a number of different IR domains, including text, music, images, and video.

Venkat Rangan

Venkat Rangan is co-founder and CTO of Clearwell Systems Inc., a pioneer in Electronic Discovery solutions. He has been involved in E-Discovery, information management and messaging solutions for the last two decades. He is an active member of the Sedona Working Group 1 on Document Retention as well the RFP Vendor Panels. He has also been spearheading industry efforts for standardizing and managing the E-Discovery Search and Information Retrieval practices through his participation in the Electronic Data Reference Model (EDRM) initiative. Also, he has been leading Clearwell Systems participation in TREC and other research bodies. Prior to founding Clearwell Systems, he served as a technologist and scientist in various organizations, focused on solving enterprise storage, application and messaging needs.

Victoria Redgrave

Victoria Regdrave is Managing Partner of Redgrave LLP. Vickie has a unique combination of skills and experience as in-house litigation counsel for two major corporations, outside counsel at an AmLaw 100 firm, and as general counsel at a technology company. As Vice President, Practice Development & General Counsel for Technology Concepts & Design, Inc. ("TCDI"), Vickie provided senior leadership to product development activities and to project management teams regarding expectations and needs of in-house counsel related to litigation management and discovery. Before joining TCDI, Vickie was Managing Counsel – Litigation for The Dow Chemical Company. In this role, Vickie led the company's Products Liability Group, supervising a team of attorneys responsible for managing all product liability litigation matters in North America. Vickie's experience also included managing the company's Discovery Practice Group. Her responsibilities in this role included the global enterprise-wide assessment of the company's capabilities and exposure regarding the disclosure and discovery of electronically stored information, as well as development and implementation of a comprehensive litigation response plan for electronic discovery and the selection and implementation of technologies for electronic discovery and matter/information management. Vickie holds a J.D. (Indiana University School of Law at Indianapolis, *summa cum laude*) and a B.S. degree in Chemistry (University of Indianapolis, *magna cum laude*). She is admitted to practice in the District of Columbia, Indiana and Michigan.

Howard Sklar

Howard Sklar is Senior Corporate Counsel at Recommind, Inc., and represents Recommind to corporations and law firms. Prior to joining Recommind, Howard was Global Trade and Anti-Corruption Strategist at Hewlett-Packard Co., running HP's global anti-corruption compliance program and providing counsel on compliance with US sanctions laws. Before HP, Howard was Vice President, Compliance and Global Anti-Corruption Leader at American Express Co. Howard was the chief of compliance for three operating divisions at American Express comprising 22,000 employees in 40 countries. Before moving in-house, Howard served 12 years as a prosecutor and regulator, first as an Assistant District Attorney in Bronx County, New York. As an ADA, Howard specialized in computer investigations and other high-tech crime, lecturing in-house and at police departments in the New York area. After, Howard spent six years at the Securities & Exchange Commission as a senior enforcement attorney in the Branch of Internet Enforcement. At the SEC, Howard investigated and prosecuted violations of the securities laws, including insider trading, accounting fraud, and market manipulation, specializing in those frauds which were perpetrated using the Internet as means of defrauding investors. Howard holds a Juris Doctor, cum laude, from the Washington College of Law at The American University and a BA in History from Tufts University.