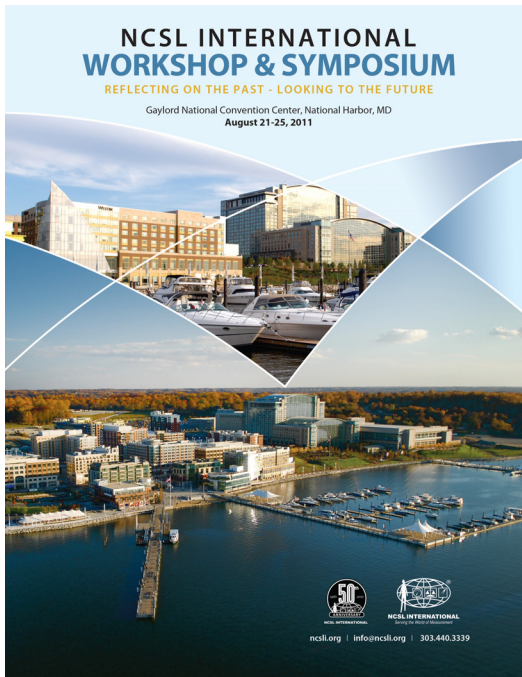


# NVLAP<sup>®</sup> NEWS

NATIONAL VOLUNTARY LABORATORY  
ACCREDITATION PROGRAM

[www.nist.gov/nvlap](http://www.nist.gov/nvlap)



## NVLAP at NCSLI

The NCSLI Annual Workshop and Symposium will be held August 20 through 26, 2011, at the Gaylord National Convention Center in National Harbor, Maryland. NVLAP Program Managers Dana Leaman and Thomas Hettenhouser will hold tutorials Saturday and Sunday, respectively.

### Saturday, August 20, 2011

*T5 - My Measurements are Traceable Right? Demonstrating the Chain of Traceability*—Dana Leaman, NIST - NVLAP

This half-day tutorial examines the requirements to demonstrate the traceability chain for our measurement and test equipment. Topics will include the concept of traceability from several levels, including the International Bureau of Weights and Measures (BIPM), National Metrology Institutes, and Accreditation Bodies. Within those discussions, we will cover the Key Comparisons Data Base (KCDB), accreditation and the associated scopes, how to demonstrate your traceability and the miscon-

ceptions associated with traceability. At the end of the discussions, the participants will be able to use the concepts covered regarding traceability and apply them to the measurements made in their laboratories to determine their traceability chains.

### Sunday, August 21, 2011

*T12 - Collecting Objective Evidence: The Internal Audit Process in Preparation for the On-site Assessment*—Thomas Hettenhouser, NIST - NVLAP

This tutorial will be of interest to managers and staff of laboratories with new or mature quality systems. It will cover what constitutes objective evidence by stepping through the internal audit process, including skills that an auditor needs to have to be effective. The tutorial will emphasize the importance of records for all aspects of the management system including reference documents, method validation and their interdependency with metrological traceability and reporting results. Using the described internal audit process prior to an on-site assessment, companies new to the accreditation process, as well those with mature quality systems, will be able to better prepare for an upcoming on-site assessment.

For further details regarding the tutorial or registration, please visit the NCSLI website at <[www.ncsli.org](http://www.ncsli.org)>. If you are coming to the Workshop and Symposium, please stop by Booth 313-315 to say "Hello."

### Inside this issue:

<i>NVLAP at NCSLI</i>	1
<i>Meetings at NIST</i>	2
<i>ILAC APLAC</i>	3
<i>Avon Walk</i>	3
<i>ISO/IEC 17043 Training</i>	3
<i>In Memoriam</i>	4
<i>NVLAP Program News</i>	5-6
<i>NVLAP Docs</i>	7-8
<i>NVLAP Payment Plan</i>	8
<i>What We Do</i>	9

## Meetings at NIST

### IAAC



IAAC Participants front row: Maribel Lopez, ema; Barbara Belzer, NVLAP; Julia Sancricca, OAA; and Elizabeth Tejada, ema

NVLAP and the other Accreditation Bodies in the U.S. who are signatories to the Inter-American Accreditation Cooperation (IAAC) multi-lateral arrangement (MLA) hosted the mid-year meetings at NIST the week of February 21, 2011.

The IAAC MLA Group and MLA Committee, the IAAC Laboratories Subcommittee, and the IAAC 35th Executive Committee meetings were held. During the IAAC Executive Committee Meeting, Reinaldo Balbino Figueiredo, first Chair of IAAC from 1996 to 2000, received a Distinguished Service Award, for his vision and hard work that greatly contributed to the establishment of a strong and internationally recognized IAAC.

NVLAP arranged a tour of NIST laboratories that support related testing and calibration subjects.

### NCSLI—Joint Section Meeting MD and VA

NVLAP and A2LA hosted a joint meeting of the Maryland and Virginia sections of the National Conference of Standards Laboratories International (NCSLI). The meeting was held in the Administration Building on the NIST Gaithersburg campus. More than 35 attendees from laboratories, instruments manufacturers, accreditation bodies, and NIST were present. The meeting presenter was the Maryland Section Coordinator, Robert Knake of A2LA.

The meeting started with a presentation on the organizational change at NIST by Dr. Greg Strouse of the Temperature, Pressure, & Flow Metrology Division of NIST. This was followed by Rob Knake providing information from the last NCSLI board meeting. A panel was then held on ISO/IEC 17025 accreditation where attendees were able to raise questions to the panel. The panel consisted of an accredited laboratory represented by Daryl Williams of the US Army TMDE Support Center; an assessor, Mr. David Deaver of A2LA; a prospective laboratory, David Heath of Phenix Technologies; and an accreditation body, Thomas Hettenhouser of NVLAP. After break, a tutorial was presented on torque calibration by Hank Zumbrum of Morehouse Instrument Company. An overview of their new torque calibration machine acquired from the National Physics Laboratory (NPL) was given.

During the afternoon, Kevin Chesnutwood of the NIST Mass and Force Group gave a presentation on force calibration and legal metrology. Kenneth Sloneker of Electronic Development Laboratories gave a talk about his development of a sensor to measure gas temperature in glow discharge plasma. This was in support of research into how shock waves react. Dr. Strouse presented on proficiency testing, key comparisons between National Measurement Institutes, and traceability.



Attendees of the Maryland and Virginia NCSLI Joint Section Meeting

## **ILAC** **World Accreditation Day**

On Thursday, June 9, 2011, NVLAP staff celebrated World Accreditation Day with a potluck luncheon after the regularly scheduled staff meeting. The theme of this year's Accreditation Day is supporting the work of regulators. Staff used the opportunity to discuss how NVLAP is providing accreditation services to several government agencies, such as the Department of Homeland Security, the Department of Justice, Department of Health and Human Services, and the U. S. Environmental Protection Agency, who have asked NVLAP to establish programs to meet their specific needs for accredited laboratories.

## **APLAC**

Betty Ann Sandoval, the NVLAP delegate to the Asia Pacific Laboratory Accreditation Cooperation (APLAC) participated in the Mutual Recognition Arrangement (MRA) Council meeting in Auckland, New Zealand, May 11-12, 2011.

## **World Accreditation Day** 9 June 2011



Supporting the work of regulators



## **NVLAP Staff at the Ninth Annual Avon Walk**



NVLAP Program Managers Barbara Belzer and Dana Leaman participated in the Ninth Annual Avon Walk for Breast Cancer on April 30 and May 1, 2011, in Washington, D.C. The 2,200 participants raised more than \$5 Million.

During the Avon Walk Washington, D.C., women and men had a choice of walking a marathon (26.2 miles) or a marathon and a half (39.3 miles) over the weekend. The event kicked off Saturday, April 30, with an early morning Opening Ceremony at the Washington Monument Grounds. Following the Ceremony, walkers began their journey, traveling through the Washington, D.C. area and concluding at the Avon Walk "Wellness Village" at Meadowbrook Park in Chevy Chase, MD. The "Wellness Village" featured two-person sleeping tents, hot showers, prepared meals, entertainment, volunteer medical services and comprehensive support services, along with leisure activities such as relaxing yoga to stretch out the muscles and a spa zone with mini-back-and-foot-massages. On Sunday, May 1, walkers completed another 13.1 miles together, ending back at the Washington Monument Grounds where they were greeted by thousands of family and friends, who shared in a celebratory and moving Closing Ceremony, including the awarding of new grants.



Barbara Belzer and Dana Leaman, on the grounds of the Washington Monument

## **NVLAP ISO/IEC 17043 Training**

On February 1<sup>st</sup> and 2<sup>nd</sup>, 2011, the National Voluntary Laboratory Accreditation Program (NVLAP) hosted a workshop on the new standard, ISO/IEC 17043: *Conformity Assessment – General Requirements for Proficiency Testing*. The purpose of the workshop was to provide the NIST technical experts and NVLAP program managers with an orientation and overview of the ISO/IEC 17043 and to provide a framework of NVLAP accreditation needs with regards to Proficiency Testing requirements. Topics covered at the training included "An overview and introduction to ISO/IEC 17043: a crosswalk to the technical requirements"; "Key Comparisons and degrees of equivalence: The Path from the SI to the Accredited Laboratory"; and "Elements of a Proficiency Test, its design, analysis of data and reporting in the International Accreditation community." Speakers included Dan Tholen, Statistical Consultant, and Greg Strouse of NIST.

## *In Memoriam*

During the last year or so, NVLAP has had four assessors die unexpectedly—Bob Weker who was an assessor for the bulk asbestos program; Pryor McGinnis and John Flood, who served as assessors for the ECT program; and Kurt Fischer who was a NIST employee and had served as an assessor for the ECT program, NVLAP staff extend sincere condolences to the families and friends of all four men.



**Bob Weker** passed away on February 27, 2010. He joined NVLAP in 1988 as an assessor for the newly established bulk asbestos program. He was a chemist and industrial hygienist who worked during his career at the Harvard School of Public Health, the Massachusetts Institute of Technology and the University of Massachusetts. At Harvard, where Mr. Weker worked for over 30 years, he studied the effects of tobacco and marijuana smoking, asbestos, nitrous oxide, ultraviolet radiation, and air pollution on human health, the workplace, and the environment. He was an avid hiker who was a member of the Appalachian Mountain Club, who led hikes and gave lectures about environmental science for the organization. Mr. Weker enjoyed hiking the Blue Hills and the Appalachian mount range and had backpacked in the Alps and the fjords of Norway.

**Pryor McGinnis** passed away on February 22, 2011. Following service in the U.S. Air Force during the Korean conflict, he became a professional engineer after graduation from Tri-State University in Indiana in 1957. His career included lunar experiments for the NASA Apollo missions and subsequent Earth Resources Technology Satellite program. He later worked for NCR and his own laboratory, as well as an ECT laboratory assessor for NVLAP.

**John Flood** passed away in early March 2011. He was a NVLAP and UKAS assessor for the ECT program who resided in the United Kingdom and was most recently affiliated with Accent Europe Ltd., an EMC and safety training, consulting and assessment services company, where he served as managing director. Mr. Flood was the author of several papers on EMC and regulatory matters and was a joint author of the U.K. Department of Trade and Industry's EMC workbook. He was also an active member of the UK's EMC Test Laboratories Association and a member of the BSI committee for basic EMC standards, as well as the UK's technical expert in IEC Working Group 10 of SC77b and as a UK delegate to IEC TC77.

Mr. Flood was a graduate professional engineer who held a BSc (Hons) in Electrical and Electronic Engineering from Loughborough University in Leicestershire, and an MSc in Electromagnetic Compatibility from the University of York. He was a chartered engineer and member of the Institute of Electrical Engineers, a registered European Engineer registered with FEANI, a federation of professional engineers that unites national engineering associations from 31 European countries, and a member of IEEE.

**Kurt Fischer** passed away March 30, 2011. He was a NIST employee who had worked as a NVLAP program manager and assessor for the Electromagnetic Compatibility and Telecommunications program and most recently the NIST Office of Law Enforcement Standards. Prior to joining NIST Kurt was president and senior consultant for Hyper Corporation, a service and consulting company focused on qualification and conformity assessment activities in wireless technologies such as Bluetooth. He enjoyed a long career in the private sector as an entrepreneur, and consultant and had thirty years experience in conformity assessment for high technology electronics, wireless devices, and telecommunications industries. In addition, during his career he served in roles as an EMC Consultant, President and General Manager of CETECOM Inc., Vice President and Founder of International Compliance Corporation (currently operated as NEMKO-Dallas), and worked for companies such as the Southwest Research Institute, Data General Corporation, Xerox Corporation, Tandy Corporation, and LTV Missiles and Electronics Group. He also had served as a lead assessor for A2LA and was a Senior Member of the IEEE.

## ***NVLAP PROGRAM NEWS***

### ***Acoustics***

Betty Ann Sandoval, Program Manager for the NVLAP Acoustics Program, participated in meetings in London, April 4-8, 2011, and Seattle, WA, May 23-27, 2011. She also attended the ASTM E33 meeting in Lancaster, PA, May 2-3, 2011 and the ASTM E11 meeting in West Conshohocken, PA, May 4-6, 2011.

### ***Biometrics***

NVLAP announces the initial accreditation of three laboratories for Biometrics Testing: atsec information security corporation, Austin, TX; Biometrics Identity Management Agency Laboratory, Fairmont, WV; and TUViT Evaluation Body for IT-Security, Essen, Germany.

In 2008, NVLAP established the Biometrics Testing program in response to a request from the U.S. Department of Homeland Security (DHS) for NIST to establish a laboratory accreditation program (LAP) for laboratories that perform performance and conformance biometrics testing on Personal Identification Verification equipment used in Homeland Security Applications.

The scopes of accreditation for the accredited Biometrics Testing laboratories are published in the NVLAP Directory of Accredited Laboratories on NVLAP's website: <http://www.nist.gov/nvlap>. Additional information about this program may be viewed at the NVLAP Biometrics Testing LAP web page: <http://www.nist.gov/pml/nvlap/nvlap-bio-lap.cfm>. For information about the program, contact Brad Moore at (301) 975-5740 or e-mail at <brad.moore@nist.gov>.

### ***Body Armor***

Hazel M. Richmond, NVLAP Program Manager for the NVLAP Personal Body Armor Program, and Jeffrey Horlick, NVLAP Guest Researcher, participated in the National Institute of Justice workshop for laboratories and manufacturers at the Baltimore Convention Center on June 2, 2011. The next day, June 3, at the same venue, NVLAP held a workshop for body armor testing laboratories.

### ***Dosimetry***

Betty Ann Sandoval attended the 30<sup>th</sup> annual International Dosimetry and Record Keeping Symposium in Coeur d'Alene, Idaho, June 6-10, 2011, where she presented NVLAP information and an update relating to the DOS and RDI programs to laboratories and representatives from industry, academia, and the government. She will also participate in the 56<sup>th</sup> annual Health Physics Society meeting in Palm Beach, Florida, June 26-30, 2011.

### ***Energy Efficient Lighting LAP and Energy Star***

The U. S. Environmental Protection Agency (EPA) Energy Star program has become an important part of the Energy Efficient Lighting laboratory accreditation program (LAP), and NVLAP is maintaining communications with the EPA as the program requirements evolve. Recently, the EPA has extended the implementation date for Luminaires Version 1.0 to April 1, 2012. The requirement that will have the greatest impact on laboratories is required accreditation to IES TM-21-11 and IES LM-82-11. Both of these documents are still in draft (as of June 6, 2011).

***(Continued next page)***

## ***NVLAP Program News (Continued from page 3)***

### ***Energy Efficient Lighting LAP and Energy Star (continued)***

Once released, they immediately become part of the Luminaires Version 1.0 requirements, and NVLAP will work with labs to get these methods on scopes as quickly as possible. IES TM-21 can be added to scopes without an on-site assessment. Since IES LM-82 is much different from previous test methods and requires equipment not commonly owned by many laboratories, an on-site assessment will be required to add this method to scopes.

The Energy Efficient Lighting Lap application will be revised shortly to include changes planned in EPA requirements. Some required test methods may be dropped by EPA. If this happens, these will be removed from scopes as they are renewed. Also, we will be adding test methods for decorative light strings.

Since the Energy Star requirements are modified occasionally, please contact NVLAP if a required test method does not appear on the Energy Efficient Lighting Application. We will work with all parties to update the application documents and get required test methods on scopes.

The following WEB page is a useful starting point for keeping current on EPA Energy Star requirements: [http://www.energystar.gov/index.cfm?c=partners.enhanced\\_test\\_verification](http://www.energystar.gov/index.cfm?c=partners.enhanced_test_verification).

Finally, the U. S. Department of Energy funding for solid state lighting proficiency testing (SSL PT) has expired. Effective June 1, 2011, any applicant lab requesting accreditation to IES LM-79 or any existing lab requesting the addition of IES LM-79 to its scope must pay a proficiency testing fee. We will review all applications and bill labs for the fee. If a laboratory is already accredited to IES LM-79 and has participated in the SSL PT administered by Cameron Miller of NIST, no additional PT is required and there is no fee.

If you have any questions regarding the Energy Efficient Lighting LAP, please contact program manager Tim Rasinski at (301) 975-6697 or <[timothy.rasinski@NIST.gov](mailto:timothy.rasinski@NIST.gov)>.

### ***Health IT Accreditation Program***

At the request of the Office of the National Coordinator (ONC), Department of Health and Human Services, NVLAP was asked to establish an accreditation program for the testing of health information technology. On April 26, 2011, a public workshop was held on the development of a Health Information Technology Accreditation Program. The talks included the current ONC temporary program with transition to the permanent program, the current NVLAP General Requirements, *NIST Handbook 15*, and topics on additional requirements necessary in the development of a program specific handbook.

The workshop summary can be found on the NVLAP website, [www.nist.gov/pml/nvlap](http://www.nist.gov/pml/nvlap). Any questions regarding the NVLAP Health Information Technology program should be directed to Dana Leaman, (301) 975-4679 or <[dana.leaman@nist.gov](mailto:dana.leaman@nist.gov)>.

### ***Radiation Detection Instruments***

A workshop for the new accreditation program, Radiation Detection Instruments (RDI) Testing was held February 15-16, 2011, at NIST. The workshop attendees included interested laboratories, equipment manufacturers, and assessors. The requirements for accreditation were discussed as well as how to obtain recognition by the Department of Homeland Security, and the NIST requirements for submission of test data. A web page for the RDI program is available at <<http://www.nist.gov/pml/nvlap/rdi-lap.cfm>>.

## ***NVLAP Documents – New/Revised (October 2010-May 2011)***

The following publications and forms were issued from October 1, 2010 through May 31, 2011, and may be downloaded from the NVLAP website. For revised publications and forms, the edition noted supersedes and replaces the previous edition. In accordance with NVLAP's document control policy, NVLAP-accredited laboratories and NVLAP assessors must ensure that all obsolete documents are removed from points of use. If you have questions about these updates, please contact the NVLAP Program Manager assigned to the specific LAP (see Staff Directory at <http://www.nist.gov/pml/nvlap/nvlapstaff.cfm>), or contact Vanda White, NVLAP Quality Manager, at [vanda.white@nist.gov](mailto:vanda.white@nist.gov).

### ***NVLAP Policy Guides***

NVLAP Policy Guide PG-6-2010, *Annual Submission of Laboratory Management System Documents* (2010-11-15)

NVLAP Policy Guide PG-7-2010, *Transfer of Accreditation From Another ILAC-Recognized Accreditation Body* (2010-11-15)

### ***General Forms and Information***

General Application Form (rev. 2010-11-15 )

NVLAP Fee Schedule (rev. 2010-10-13 )

Fee Calculation Worksheet - Testing Laboratories (rev. 2010-10-15 )

Fee Calculation Worksheet - Calibration Laboratories (rev. 2010-10-15)

### ***Assessor Forms and Information***

NVLAP Assessor Quote Form (rev. 2011-01-05)

Instructions for Preparing an Invoice for Laboratory Assessment and Related Services (rev. 2011-04-12)

NVLAP Laboratory Assessment and Related Services Invoice (rev. 2011-04-07)

### ***Acoustical Testing Services LAP***

Acoustical Testing Services Application (rev. 2011-03-30)

NIST Handbook 150-8:2011, *Acoustical Testing Services* (April 2011)

NIST Handbook 150-8 Checklist, *Acoustical Testing Services* (rev. 2011-04-25)

NVLAP Lab Bulletin LB-56-2011, *Release of NIST Handbook 150-8, 2011 Edition* (2011-04-25)

### ***Biometrics Testing LAP***

Biometrics Testing Application (rev. 2011-02-09)

NIST Handbook 150-25 Checklist, *Biometrics Testing* (rev. 2010-10-15)

### ***Bulk Asbestos Analysis (PLM) LAP***

NIST Handbook 150-3 Checklist, *Bulk Asbestos Analysis* (rev. 2011-02-18)

### ***Carpet and Carpet Cushion LAP***

Carpet and Carpet Cushion Application Form (rev. 2010-12-09)

### ***Cryptographic and Security Testing LAP***

Cryptographic and Security Testing Application Form (rev. 2011-05-24)

NIST Handbook 150-17:2011, *Cryptographic and Security Testing* (April 2011)

NVLAP Lab Bulletin LB-58-2011, *Release of NIST Handbook 150-17, April 2011 Edition* (2011-05-25)

(continued next page)

## ***NVLAP Documents – New/Revised (October 2010-May 2011)*** ***(Continued)***

### ***Electromagnetic Compatibility & Telecommunications (ECT) LAP***

NIST Handbook 150-11A Checklist, *FCC Parts 2, 15, and 18* (rev. 2010-11-10)

NVLAP Lab Bulletin LB-53-2010, *Release of Updated NIST Handbook 150-11A Checklist* (2010-11-18)

### ***Energy Efficient Lighting Products LAP***

NIST Handbook 150-1:2010-12 ed., *NVLAP Energy Efficient Lighting Products* (December 2010)

NIST Handbook 150-1 Checklist, *Energy Efficient Lighting Products* (rev. 2010-12-30)

NVLAP Lab Bulletin LB-54-2011, *Release of NIST Handbook 150-1, 2010 Edition and NIST Handbook 150-1 Checklist, 2010 Edition* (2011-01-07)

Energy Efficient Lighting Products Application Form (rev. 2011-03-30)

### ***Ionizing Radiation Dosimetry LAP***

NVLAP Lab Bulletin LB-55-2011, *Category IV (mixed betas and photons) – ANSI N13.32-2008* (2011-03-25)

### ***Radiation Detection Instruments***

NVLAP Lab Bulletin LB-57-2011, *Electromagnetic Compatibility testing (ECT) as required for Radiation Detection Instruments (RDI) testing* (2011-05-16)

Radiation Detection Instruments Application Form (rev. 2011-05-16)

### ***Thermal Insulation Materials***

Thermal Insulation Materials Application Form (rev. 2011-05-25)

---

## ***NVLAP Payment Plan Option***



Just a reminder that NVLAP offers an extended payment plan through NIST's Accounts Receivables Office, for all laboratories wanting extra time to pay NVLAP fees over a 6-month period. A repayment plan agreement must be arranged at the time of renewal.

To take advantage of this payment option, a laboratory must first send in its purchase order and application to NVLAP. Then to set up a payment plan, the laboratory must contact Ms. Julie Weiblinger, by phone at (301) 975-2173, or by e-mail at <julie.weiblinger@nist.gov>.

A signed payment plan agreement must be in place with NIST before payments can be made. If you have any questions about the payment plan, please contact NVLAP at (301) 975-4016 or by e-mail at <nvlap@nist.gov>.





## ***WHAT WE DO***

The National Voluntary Laboratory Accreditation Program (NVLAP) provides third-party accreditation to testing and calibration laboratories. NVLAP's accreditation programs are established in response to Congressional mandates or administrative actions by the Federal Government or to requests from private-sector organizations and government agencies. NVLAP operates an accreditation system that is compliant with ISO/IEC 17011, which requires that the competence of applicant laboratories be assessed by the accreditation body against all of the requirements of ISO/IEC 17025.

### **NVLAP Mission Statement**

To deliver high quality, value-driven accreditation services to testing and calibration laboratories by:

- ◆ meeting or exceeding customer expectations;
- ◆ operating to globally accepted requirements for accreditation bodies;
- ◆ promoting world-wide acceptance of test and calibration results of NVLAP-accredited laboratories; and
- ◆ pursuing organizational and technical excellence.

### **NVLAP Vision Statement**

To be a world-class accreditation body recognized nationally and internationally for raising the bar and setting the standard for excellence in accreditation.



*Photo taken by Brian Renegar, NIST Staff  
Flag-Draped Administration Building*

*NVLAP is located on the campus of the  
National Institute of Standards and  
Technology in Gaithersburg, MD*

**NVLAP News** is published by the National Voluntary Laboratory Accreditation Program, Physical Measurement Laboratory, National Institute of Standards and Technology, U.S. Department of Commerce. Comments are welcome. **Hazel M. Richmond**, Editor, NIST/**NVLAP**, 100 Bureau Drive, Stop 2140, Gaithersburg, MD 20899-2140. Phone: (301) 975-4016; Fax: (301) 926-2884; E-mail: [nvlap@nist.gov](mailto:nvlap@nist.gov). The **NVLAP** Home Page: <<http://www.nist.gov/nvlap>>.