NVLAP® NEWS

National Voluntary Laboratory Accreditation Program *Fall 2003*

NEW NVLAP CHIEF

Warren Merkel has been selected as the new NVLAP chief, succeeding David Alderman who joined the NIST Standards Coordination and Conformity Group last December. Douglas Faison served as Acting Chief of NVLAP in the interim.

Warren comes to NVLAP from the American Association for Laboratory Accreditation (A2LA), where he served as both operations manager, responsible for day-to-day management of all A2LA accreditation programs, and technical manager, coordinating development of new accreditation programs and serving as technical liaison with laboratory users, industry groups, government agencies, and international peers.

Warren began his career as a chemist at the Defense Personnel Support Center (DPSC), where he planned, performed, evaluated, and reported results of chemical, mechanical, and dimensional testing, and audited and monitored textile laboratories in the DPSC Quality Laboratory Program. He has actively participated in mutual recognition activities at both the national and international levels.

Warren may be contacted at NVLAP by e-mail at warren.merkel@nist.gov or by phone at (301) 975-5888.

PROGRAM NEWS

Asbestos Fiber Analysis

At the 2002 American Society for Testing and Materials (ASTM) Johnson Conference, attended by Tom Davis, Senior Program Manager, a topic of frequent discussion was the analytical method for analysis of asbestos in bulk materials for the Environmental Protection Agency's (EPA) Asbestos Hazard Emergency Response Act (AHERA), and National Emissions Standards for Hazardous Pollutants (NESHAP) programs. From the discussion, it became apparent that not everyone has copies of the EPA methods used for analysis of these samples. With the full permission of EPA, the Research Triangle Institute's (RTI) Microanalytical Sciences Department has scanned these documents and made them available on the RTI web site in a PDF format. Go to www.rti.org, under *Products and Services, Laboratory Certification and Proficiency Testing*, click on *Proficiency Testing for Asbestos Analysis*, and then click on *Publications.*

Calibration

Doug Faison, Steve Doty, Barbara Belzer, and Lisa Warfield have been busy since the last NVLAP newsletter. Steve and Barbara have had their hands full just keeping up with the day-to-day accreditation and proficiency testing activities. Lisa has been busy supporting the program managers in calibration and several other programs, trying to keep up with the ever-changing internal database system and helping assessors register with the Central Contracting Registry. Doug has been busy

with a number of activities at NIST and elsewhere, as well as managing the program. Some highlights, in no particular order, follow.

It is no secret that NIST is in the process of developing and implementing a NIST-wide quality system for Calibration Services using ISO/IEC 17025 as the standard. Doug has been active on the Task Group, on the Working Group, and in the development and delivery of training to NIST staff. So far, a draft NIST-level Quality Manual, called QM-1, has been developed and the process of developing the quality documentation down to the service level has begun. In support of this, Sally Bruce (NIST Optical Technology Division) and Doug have been training NIST staff to 17025 and QM-1, and prepared a course for internal assessors that was delivered at the end of September. The ultimate goal is for NIST to self-declare conformance to 17025. To date, approximately 121 persons have been trained. We have also begun the process of adding Standard Reference Materials services to the scope of the quality system.

Doug, Steve, and Barbara attended the NCSL International Conference and Symposium held in Tampa, Florida in August. Each participated in meetings and committee activities. As a member of the ANSI/NCSLI Writing Group (the 174 Committee), Doug is participating in the effort to revise ANSI/NCSL Z540-1-1994. The 15 members of a working group that was established by the 174 Committee and chaired by Del Caldwell, and a few other interested parties, met all day Saturday to discuss comments received and several options for a revised national standard. The full committee met late Monday afternoon to discuss the results of the efforts thus far. Needless-to-say, there were some lively discussions and much work still needs to be done. The working group is planning a two-day meeting in November to continue with their activities. Doug is confident that the committee will be able to reach a consensus and offer a revised standard that will reflect the needs of all U.S. stakeholders.

Steve participated with members of the mass metrology community in an interesting meeting to discuss the effects of magnetism on mass measurement results. There is general agreement that magnetism may cause problems in both measuring weights and using them; there does not yet seem to be a practical way to quantify the effect on, or its contribution to, measurement uncertainty. Some have suggested that all weights be tested for the presence of a magnetic field before they are calibrated. This can be expensive and knowing the field strength does not necessarily reveal what the overall effect will be on the calibration, or on the end use of the weights. All agree more data is needed. In the meantime, it is appropriate for NVLAP calibration laboratories to state in their calibration reports whether or not the weights were tested for magnetism and if a component for magnetism was added (or not) to the uncertainty of the measurement result. NVLAP published a lab bulletin on this issue in October, which is posted on the handbooks page of the NVLAP web site.

Barbara attended the Airline Committee (156) meeting also held late Monday afternoon. There was much discussion on the possible use of ISO/IEC 17025 and laboratory accreditation as a means to assure the competence of calibration suppliers. NVLAP has agreed to do a gap analysis between 17025 and the industry requirements as soon as those requirements are provided. The committee also expressed an interest in getting more participation from the regulator, the Federal Aviation Administration (FAA). Representatives from NIST will be assisting in identifying the proper FAA contacts. The minutes of this meeting have been posted on the NCSLI web site.

In this same vein, NVLAP has completed a gap analysis between 17025 and the Nuclear Utilities Procurement Issues Committee (NUPIC) audit checklist. The purpose is to show how accreditation to 17025 can satisfy the essential requirements of the nuclear industry, as reflected in the NUPIC checklist. The goal is to have accredited calibration laboratories (accredited by NVLAP or an accreditation body with which NVLAP has signed a Mutual Recognition Arrangement) accepted as suppliers of commercial-grade calibration services to the license holders. A submittal is currently being prepared by a license holder that will request the Nuclear Regulatory Commission (NRC) to accept accredited labs as suppliers, based on the commonality of the two sets of requirements. The analysis has been published as NISTIR 6989: *Comparison of ISO/IEC 17025 with the NUPIC Audit Checklist*, and is available from the NVLAP web site.

Just before the NCSLI, Doug attended, as the NIST representative, the semiannual meeting of the North American Calibration Committee (NACC). Members of this committee represent the National Measurement Institutes (NMIs) of Canada, the U.S., and Mexico and the recognized laboratory accreditation systems of each of the three countries. The goal of NACC is to provide guidance and assistance to members regarding calibration laboratory accreditation. Progress is slow, but steady. The committee has completed a few laboratory inter comparisons with good results and have several more planned. Dr. Malcolm Smith, of Wescan Calibration Services, has joined the group representing the National Cooperation for Laboratory Accreditation (NACLA), replacing Roxanne Robinson. Malcolm has long been an advocate of doing it right (lab accreditation) and we welcome his participation.

Finally, with the help and support of our NIST technical experts in the Process Measurements Division's Thermometry Group, NVLAP has established guidelines, based on levels of uncertainty, for proficiency test requirements. The requirements range from a simple one-on-one test of an artifact to participation in a full NIST MAP (measurement assurance

program). The primary reason for this is so that laboratories with state-of-the-art measurement capabilities will have the backing they need to assure the international community that they can provide claimed services. A few NVLAP labs have uncertainties, which are smaller, or at least as small as some NMIs in other countries. As these NMIs are required to participate in key comparisons as evidence of their capability, these private industry labs must also have a means to demonstrate their competence. Participation in the required MAPs will provide the necessary evidence. NIST Handbook 150-2H, Calibration Laboratories Technical Guide for Thermodynamic Measurements will contain the guidelines. This document is almost ready for publication. Keep watching our web site for the availability of this and other 150-2 series handbooks.

As always, NVLAP will be attending the Measurement Science Conference in Anaheim, California, in January 2004, and will continue to participate in committee activities. Please drop by the NVLAP booth for a visit.

Dosimetry

Betty Ann Torres, Senior Program Manager, plans to attend this year's Council on Ionizing Radiation Measurements and Standards (CIRMS) 12th Annual meeting, *Radiation/Radioactivity Measurements and Standards in Industry*, to be held October 27-29, 2003. Betty Ann represents NVLAP on the Occupational Radiation Protection subcommittee. CIRMS is an international organization, made up of leaders from academic, government, and industrial sectors, dedicated to identifying the needs for new measurement technologies, and the development of new standards in the field of ionizing radiation. The meetings are held every year at NIST.

In January of this year, Betty Ann attended the mid-year Health Physics Society (HPS) meeting on Homeland Security in San Antonio, Texas, as well as the annual HPS meeting in San Diego, California, that took place in July. She participated in the HPS Legislation and Regulation Committee, and attended the working group meeting of ANSI N13.32, *Standard for the Performance Testing of Extremity Dosimeters*. The standard is used by NVLAP-accredited laboratories for processing external dosimeters, and is currently being revised.

In June, Betty Ann attended the 22nd Annual International Dosimetry Symposium (formerly known as the Panasonic Users' Group) in Coeur d'Alene, Idaho, and in September attended the 14th Annual User Conference (formerly known as the Harshaw Users' Group). She presented an overview of NVLAP, and discussed the NVLAP proficiency testing requirements for the revised ANSI N13.11-2001, *Personnel Dosimetry Performance-Criteria for Testing*. The phase-in period for meeting the new performance standard ends June 30, 2004. Betty Ann also presented current proficiency testing results showing that approximately half of the NVLAP Dosimetry laboratories have tested against the revised standard and have passed.

Acoustics

Betty Ann Torres attended ASTM E-33, Environmental Acoustics technical meetings during ASTM Committee Week held April 6-10, 2003. She attended subcommittee meetings E33.01: Sound Absorption; E33.03: Transmission; E33.04: Application of Acoustic Materials and Systems; E33.05: Research; E33.06: International Standards; E33.07: Definitions; E33.08: Electrical and Mechanical System Noise; and E33.09 - Outdoor Sound Measurement. Betty Ann plans to attend the next ASTM E-33 technical meetings scheduled October 20-24, 2003, in Tampa, Florida.

Construction Materials Testing

Betty Ann Torres attended ASTM Committee Week held in Denver, Colorado, June 15-20, 2003. She attended technical meetings C01: Cement; C09: Concrete and Concrete Aggregates; and D04: Road and Paving Materials. Betty Ann also attended subcommittee meetings C01.10: Hydraulic Cement for General Construction; C09.40: Ready-Mixed Concrete; C09.41: Radiation Shielding; C09.60: Testing Fresh Concrete; C09.96: Cement and Concrete Reference Laboratory; C09.96: Evaluation of Laboratories; and D04.51: Aggregate Tests. Betty Ann plans to attend the next ASTM Committee Week, December 7-12, 2003, in Tampa, Florida.

OTHER NVLAP NEWS

Kudos to Jeffrey Horlick

Jeffrey Horlick, NVLAP's Technical Advisor and Senior Program Manager of the Information Technology Security Testing Group, recently received the Department of Commerce Silver Medal for his work on the Cryptographic Module Validation Program (CMVP), as part of a team effort with NIST's Information Technology Laboratory (ITL) experts. The team was recognized for successfully conceiving, establishing, and operating the CMVP and developing the associated Security Requirements for Cryptographic Modules standard. The team's leadership, innovation, and vision, have enabled and strengthened the deployment of strong commercial cryptography to protect the nation's critical national infrastructures, in both the public and private sector. The team has established both a standard and a program that has brought and continues to bring international recognition and prestige to NIST, the Department of Commerce and the U.S. Federal Government.

The second highest honorary award granted by the Secretary of Commerce, the Silver Medal is awarded for exceptional performance characterized by noteworthy or superlative contributions, which have a direct and lasting impact within the Department.

Jeffrey Horlick also received the Department of Commerce Bronze Medal last December for outstanding contributions to the field of laboratory accreditation and international recognition of NVLAP. Jeffrey has been the driving force for NIST's international laboratory accreditation activities for more than two decades. His tireless efforts ensured recognition of NVLAP as a world-class accreditation body. In 1997, NVLAP was officially recognized by the Asia Pacific Laboratory Accreditation Cooperation (APLAC), and in 2000 achieved recognition by the International Laboratory Accreditation Cooperation (ILAC). The ILAC Arrangement, which recognizes NVLAP as one of 42 accrediting bodies in 28 different economies, promotes the acceptance of test and calibration data from NVLAP-accredited laboratories and increases the acceptance of U.S. products in the global marketplace. Jeffrey also spearheaded the acceptance of the NVLAP computer security laboratory accreditation program and its proficiency testing program.

NVLAP News is published by the National Voluntary Laboratory Accreditation Program, Standards Services Division, Technology Services, National Institute of Standards and Technology, Technology Administration, 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. The URL address for the ***NVLAP*** Home Page is<http://www.nist.gov/nvlap>.

NEWLY ACCREDITED LABORATORIES
(Since the last newsletter)

CALIBRATION LABORATORIES

200494-0	MD Dept. of Agriculture W&M Section, 50 Harry S. Truman Parkway, Annapolis, MD 21401 Stephen Alfred Barry, (410) 841-5790
200495-0	North Carolina Standards Laboratory, 4040 District Drive, Raleigh, NC 27607-6470, L. F. Eason, (919) 733-4411
200536-0	Asanuma Giken Co., Ltd., 4079-1 Koto-Cho, Hamamatsu-shi, Shizuoka-ken, 431-1103, Japan Susumu Asanuma, 81-53-486-1110
200560-0	Florida Department of Agriculture, 3125 Conner Blvd. Lab #2, Tallahassee, FL 32399-1650 Michael D. Cook, (850) 488-9295
200582-0	Thunder Scientific Corporation, 623 Wyoming SE, Albuquerque, NM 87123-3198, Brad Bennewitz, (505) 265-8701
200596-0	Norbar USA, Inc., 1650A Mansfield Street, Santa Cruz, CA 95062, Neill Brodey, (831) 464-7155 x14
200605-0	Mahr Federal Inc., 1139 Eddy Street, Providence, RI 02940, John Peipock, (401) 784-3292

CHEMICAL CALIBRATION

Providers of Proficiency Testing

200401-0	Analytical Standard, Incorporated, 6331 Emerson Avenue, Parkersburg, WV 26104 Frederick Sayre Anderson, (304) 422-4274
200615-0	Wibby Environmental, 6390 Joyce Drive #100, Golden, CO 80403-7504, Chuck Wibby, (303) 940-0033

ELECTROMAGNETIC COMPATIBLITY AND TELECOMMUNICATIONS

200577 - 0 Compliance Certification Srvcs, #6 Jinao Industry Yuan #135 Jikeng Rd., Dashuikeng Cun Guanlan Zhen Baoan Qu, Shenzhen GD 518110, China, Charles Wang, 886-3-324-0332
200587 - 0 DNB Engineering, Inc., 5969 Robinson Ave., Riverside, CA 92503, Michael Neis, (714) 870-7781
200600 - 0 Compliance Certification Services Inc., 1st Fl. Universal Center, No. 181 Sec. 1, Tatung Road, Shijr Taipai Hsien 221, Taiwan Tony Houng, 886-3-3240332
200601 - 0 Korea Electric Testing Institute, 692-8 Keumjung–Dong, Kunpo-City, Kyunggi-do 435-862, Korea, Seung-Sun Choi, 82-31-428-7520
200603 - 0 Sanyo Electric Co., Ltd. Testing Lab, 7-3-2, Higashimachi, Ibukidai, Nishi-ku, Kobe-city, Hyogo-Prefecture 651-2242, Japan Nobuyoshi Nishizawa, 81-78-993-1038
200607 - 0 Taiyo Yuden Co., Ltd. EMC Center, 5607-2 Nakamuroda Haruna-machi, Gunma-gun Gunma 370-3347, Japan Hidetaka Ikari, 81-27-360-8328
200611 - 0 SGS-CSTC Stds Technical Standards, 1/F Building No.1 Agriculture Machinery, Materials Co., Wushan Rd, Shipai Tianhe, Guangzhou 510630, China, Kent Hsu, 86-20-38481001 x121
200612 - 0 Advanced Compliance Solutions, 5015 B.U. Bowman Drive, Buford, GA 30518, Sam Wismer, (770) 831-8048
200617 - 0 Compliance Certification Services Inc., No. 199, Chunghsen Rd., Hsintien City, Taipei Hsein, 231, Taiwan Kurt Chen, 886-2-2240222
200619 - 0 SONY Utsunomiya EMC Laboratory, 2620 Tokujiva-machi, Utsunomiya-shi, Tochigi-ken 321-2116, Japan Hiroshi Kawabata, 81-28-665-4613
200620 - 0 Spindler Associates Co., Ltd., Tokatsu Techno Plaza 504, 5-4-6 Kashiwanoha, Kashiwa 277-0882, Japan Jens Spindler, 81-4-7169-7010
200623 - 0 Samsung Electronics EMC Laboratory, 416 Maetan 3 Dong, Paldal Gu, Suwon, Kyungki Do 442-742, Korea Kyu Baek Chung, 82-31-200-2140
200624 - 0 International Approvals Labs LLC, 5541 Central Avenue, Suite 110, Boulder, CO 80301, Robert Cresswell, (303) 786-7999
200627 - 0 Ecom Sertech Corp., R258 Bldg. 17, 195, Sec. 4, Chung Hsing Road, Chutung Hsinchu 310, Taiwan, Paul Y. Liau, 886-3-51-5994
200629 - 0 Northwest EMC, 14128 339th Avenue SE, Sultan, WA 98294, David M. Tolman, (503) 844-4066
200630 - 0 Northwest EMC, 22975 Northwest Evergreen Parkway, Hillsboro, OR 97124, David M. Tolman, (503) 844-4066
200634 - 0 DNB Engineering, Inc., 1100 E. Chalk Creek Road, Coalville, UT 84017, Michael Neis, (714) 870-7781

ENVIRONMENTAL

Asbestos Fiber Analysis

PLM

200602 - 0 Solar Environmental Srvcs, Inc., 1131 E. 76th Avenue, Suite 102, Anchorage, AK 99518, Gracita O. Torrijos, (907) 349-7705
200610 - 0 EMSL Analytical Inc., 5128 Service Center Drive, San Antonio, TX 78218-5513, Wiley Lastrapes, (210) 661-0149
200613 - 0 Prezant Associates, Inc., 330 Sixth Avenue North, Suite 200, Seattle, WA 98109-4613, Deitrie Hanson, (206) 281-8858 x107
200614 - 0 Pinnacle Environmental Consultants Inc., 2088 Ross Avenue, Cincinnati,OH 45212-2039, James R. Jones, (513) 533-1823
200618 - 0 Micro Analytical Services, 11301 Richmond Ave., Suite K100B, Houston, TX 77082, Tony Dang, (281) 497-4500
200621 - 0 Patriot Environmental Lab Service, 7525 Metropolitan Drive, Suite 300, San Diego, CA 92108, Cristina E. Tabatt, (619) 291-6958
200622 - 0 Grimes & Associates, Consult. Eng., LP, 1005 S. Uhl Road, DeSoto, TX 75115, John Grimes, (972) 223-5555
200628 - 0 Marine Chemist Service, Inc., 11850 Tug Boat Lane, Newport News, VA 23606, Bharati L. Malhotra, (757) 873-0933
200633 - 0 Precision Analytical Laboratory, Inc., 3526 FM 528, Suite 100, Friendswood, TX 77546-5003, Curtis Grigg, (281) 648-9918
200640 - 0 Precision Environmental Inc., 36-15A 23rd Street, Long Island City, NY 11106, Michael Parpounas, (718) 383-2626
200642 - 0 American Analytical, 12062 Valley View #100,Garden Grove, CA 92845, Kim Massey, 714-379-0838
200643 - 0 Moldlab, Ltd., 3792 Arapaho Road, Addison, TX 75001, Kristina Rucker, (972) 247-9373
200644 - 0 ETS Consulting, 798-30, Yok-Sam dong, Gang Nam Gu, Seoul 135-930, Korea, Meehee Suk, 82 2 553 4852

TEM

200610 - 0 EMSL Analytical Inc., 5128 Service Center Drive, San Antonio, TX 78218-5513, Wiley Lastrapes, (210) 661-0149

FASTENERS AND METALS

200599 - 0 MacLean Vehicle Systems Prod. Dev. Lab., 2946 Waterview Dr., Rochester Hills, MI 48309, Richard Catherwood, (248) 853-2525 x29

INFORMATION TECHNOLOGY SECURITY TESTING

Cryptographic Module Testing

200583 - 0 LogicaCMG, Chaucer House, Springfield Dr., Leatherhead Surrey KT22 7LP, United Kingdom, Simon Milford, 44-1372-369831

Common Criteria Testing

100432 - 0 InfoGard Laboratories, Incorporated, 641 Higuera Street, Second Floor, San Luis Obispo, CA 93401, Mac Brinton, (805) 783-0810
200561 - 0 Criterian Independent Labs, 1000 Technology Drive, Suite 1000, Fairmont, WV 26554, David Esses, (304) 368-4515

PRODUCT TESTING

Acoustics

100402 - 0 Intertek Testing Services NA Inc., 3933 U.S. Route 11, Cortland, NY 13045-0950, Byron Horak, (607) 758-6215
200557 - 0 NASA Glenn Research Center ATL, 21000 Brookpark Road MS 86-10, Cleveland, OH 44135, Beth A. Cooper, (216) 433-3950

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NEWLY ACCREDITED LABORATORIES

(continued)

Construction Materials Testing

200616-0	Connecticut Materials Testing Laboratory, 8 Cove Avenue (rear), Norwalk, CT 06855, Anthony B. Broncati, (866) 854-9601

Efficiency of Electric Motors

200588-0	Kirloskar Electric Test Lab, Unit VII, Plot No. 6 Hirehalli Ind. Area, Hirehalli Post, Tumkur 572-168 Karnataka, India, H. S. Krishna Murthy, 91 80 3322111
200590-0	Tatung Company, 22 Chungshan N. Rd., 3rd Sec., Taipei, 104, Taiwan, Ming Ching Sue, 886-2-26736888 X251
200606-0	GEIMM Ultra Test Lab, Libramiento podiente Kilometro 4.5, Moterrey Garcia, NL 66000, Mexico Ramiro Gomez Valdez, 011528181533653
200609-0	China Nat'l Qlty Supervision & Test Ctr, 20 North Zhongjing Road, 473008 Nanyang, Henan, China, Wang Jun, +86 377 3258553

Energy Efficient Lighting Products

200372-0	AUDIX Technology (Shenzhen) Co., Ltd., No. 6 Ke Feng Road 52 Block Shenzhen Science & Industry Park, Nantou, Shenzhen, Guangdong, China, Smart Tsai, 86-755-2663-9496
200608-0	Westinghouse Light Bulb Test Lab, 12401 McNulty Road, Philadelphia, PA 19154-1099, Demetrios Karambelas, (215) 671-2158
200631-0	Intertek Testing Services Hong Kong Ltd., 2/F Garment Centre, 576 Castle Peak Rd., Kowloon, Hong Kong, China Chapman Chan, (852) 21738559