Improving Biometric and Forensic Technology:
The Future of Research Datasets

National Institute of Standards and Technology
January 26-27, 2015
Green Auditorium
Gaithersburg, MD

Day One Agenda – January 26, 2015

8:30 – 9:00 AM	**REGISTRATION**
9:00 – 9:15 AM	**Welcome and Opening Remarks** Susan Ballou, Manager, Forensic Science Research Program, Special Program Office (SPO)
9:15 – 10:15 AM	**PLENARY SESSION**
	The Role of Research Datasets in Improving Biometric and Forensic Technology Mark Greene, Program Manager, National Institute of Justice (NIJ) Melissa Taylor, Program Manager, Forensic Science Research Program, SPO, NIST **Challenges in the Collection and Use of Biometric and Forensic Datasets** Austin Hicklin, Fellow, Noblis Brad Wing, Information Technology Laboratory (ITL), NIST
10:15 – 11:45 AM	**PANEL: PRIVACY AND LEGAL ISSUES IN THE COLLECTION, DISTRIBUTION, AND USE OF BIOMETRIC AND FORENSIC DATASETS**
	• Mike Garris, ITL, NIST • Jeremy Dawson, Research Assistant Professor, West Virginia University • Greg Michaud, Director, Forensic Science Division, Michigan State Police • Dorothy Glancy, Professor of Law, Santa Clara University *Moderator: Henry Wixon, Chief Counsel, NIST and Brad Wing, ITL, NIST*
11:45 – 12:45 PM	**LUNCH**
12:45 - 1:00 PM	**NIST's New Catalog of Publicly Available Biometric Databases** Shannan Williams, Project Manager, Forensic Science Research Program, SPO, NIST
1:00 – 2:35 PM	**FINGERPRINT/PALMPRINT**
	State of the Industry Anil Jain, University Distinguished Professor, Department of Computer Science and Engineering, Michigan State University **WVU Biometric Data Collection Projects** Jeremy Dawson, Research Assistant Professor, West Virginia University **NIST's Fingerprint Database Cataloging Efforts** Craig Watson, ITL, NIST

Usefulness of existing databases
Elham Tabassi, ITL, NIST

Future database needs discussion
Moderator: Anil Jain, University Distinguished Professor, Department of Computer Science and Engineering, Michigan State University

2:35 – 3:00 PM	**BREAK**
3:00 – 4:30 PM	**IRIS**

State of the Industry
Stephanie Schuckers, Director of the Center of Identification Technology Research/ Professor, Electrical and Computer Engineering, Clarkson University

NIST Iris Databases
George W. Quinn, ITL, NIST

Iris as a Forensic Modality vs. Cooperative and Traditional Iris Biometrics
Arun Ross, Associate Professor, Department of Computer Science and Engineering, Michigan State University

Future database needs discussion
Moderator: Patrick Grother, ITL, NIST

4:30 – 4:45 PM	**CLOSING REMARKS**

Day Two Overview

Day Two Agenda – January 27, 2015

8:30 – 9:00 AM	**REGISTRATION**
9:00 – 10:00 AM	**PANEL: STATISTICAL SIGNIFICANCE IN BIOMETRIC AND FORENSIC DATASETS**

- Chris Saunders, Assistant Professor, Statistics, South Dakota State University
- Mike Thieme, Vice President, IBG, A Novetta Solutions Company
- Hariharan Iyer, Statistical Engineering Division, NIST

Moderator: Karen Kafadar, Commonwealth Professor & Chair of Statistics, University of Virginia

10:00 – 11:00 AM	**VOICE**

State of the Industry
Hirotaka Nakasone, Senior Scientist, Operational Technology Division, Federal Bureau of Investigation (FBI)

Usability of existing databases
Peter Higgins, Independent Biometrics Consultant, Higgins & Associates, International

Future database needs discussion
Moderator: Vincent Stanford, ITL, NIST

11:00 – 11:15 AM	**BREAK**

11:15 – 12:15 PM	**HANDWRITING**

State of the Industry
Ted Burkes, Questioned Documents Unit, FBI

Specific Approaches to Statistical Analysis and Collection of Handwriting Databases
Christopher Saunders, Assistant Professor, Statistics, South Dakota State University

Disguised Writing and Tracing Samples
Peter Tytell, Private Forensic Document Examiner

Future database needs discussion
Moderator: JoAnn Buscaglia, FBI

12:15– 1:15 PM	**LUNCH**
	FACE AND PERSON-AT-A-DISTANCE
1:15 – 3:00 PM	**State of the Industry Face**

Mark Burge, Office of Smart Collection, Intelligence Advanced Research Projects Activity, Office of the Director of National Intelligence

State of Industry, Person at a Distance
Brendan Klare, Noblis

NIST Face and Person-at-a-Distance Databases
Jonathon Phillips, ITL, NIST

Summary of DHS' database cataloging efforts: Mobile Data Collection
Marcia Kimura and Rebecca Erikson, Department of Energy, Pacific Northwest Laboratory

Future database needs discussion
Moderator: Richard Vorder Bruegge, FBI

3:00 – 3:30 PM	**CLOSING REMARKS**

NIST Next Steps & Summary Comments
Austin Hicklin, Fellow, Noblis
Brad Wing, ITL, NIST