



Idaho State Police

Service Since 1939



Colonel Ralph W. Powell
Director

C.L. "Butch" Otter
Governor

RYLENE L. NOWLIN

Laboratory Manager
Idaho State Police Forensic Services
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Phone – (208) 884-7170

EDUCATION:

1996 The College of Idaho
Bachelor of Science - Biology and History

EXPERIENCE:

Sept. 2014- Present Idaho State Police Forensic Services Laboratory
Laboratory Manager

Jun. 2003- Sept. 2014 Idaho State Police Forensic Services Laboratory
Forensic Scientist II
Biology/DNA

Nov. 2002- Jun. 2003 Idaho State Police Forensic Services Laboratory
Forensic Scientist I
Biology/DNA

CERTIFICATIONS:

Aug. 2007- Present American Board of Criminalistics; Molecular Biology Fellow

PROFESSIONAL ORGANIZATIONS; COMMITTEES; WORKING GROUPS:

Feb. 2011- Present American Academy of Forensic Sciences

Jan. 2005- Present Northwest Association of Forensic Scientists

TESTIMONY:

State Courts	Ada County	Latah County
	Bannock County	Kootenai County
	Bingham County	Nez Perce County
	Blaine County	Payette County
	Bonner County	Shoshone County
	Canyon County	Twin Falls County
	Jefferson County	

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EQUAL OPPORTUNITY EMPLOYER

Revised 9/10/14

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CONTINUING EDUCATION; ASSOCIATION MEETINGS; CONFERENCES:

- 2014 Webinar: Validation Concepts and Resources (NIST)
Professional Meeting: DNA (Promega)
- 2013 Professional Meeting: DNA (BODE-West)
Webcast: DNA Mixture Interpretation (NIST)
- 2012 Professional Meeting: DNA (Green Mountain DNA Conference)
- 2011 Professional Meeting: DNA, Mixture Interpretation (Promega)
- 2010 Ethics in Forensic Science (WVU)
Professional Meeting: DNA (FBI/CODIS)
- 2009 Professional Meeting: DNA (AAFS)
DNA-View, Casework Analysis and Forensic Mathematics Training
(Dr. Charles Brenner)
Workshop: DNA Analysis (NWAFS)
Digital Photography Crime Scene Training (FBI)
- 2008 Combined DNA Index System (CODIS) Training (SAIC)
Basic Driftcon use and Application Training (BPCTi)
Professional Meeting: DNA, Troubleshooting Common Laboratory
Problems (Promega)
Automation Training Course (MU-FSC)
- 2007 Professional Meeting: DNA (AAFS)
Advanced DNA Training Course (MU-FSC)
NIJ Expert Systems Testbed Project Expert Systems Demonstrations
(MU-FSC)
FSS-i3 Expert Systems Software Training (Promega)
Professional Meeting: National CODIS Conference
DNA Auditor Training (FBI)
- 2006 Hair Examination for DNA analysts (WVU)
Professional Meeting: DNA (Promega)
- 2005 Working Group Meeting: DNA (Promega)
In-Service Training: DNA Analysis of Casework and
Convicted Offender Samples (ISP)
- 2004 In-Service Training: ABI Prism 7000 (ABI)
PopStats (UNT)
Seminar: Future Trends in Forensic DNA Technology (ABI)
Professional Meeting: DNA, Molecular Biology (Promega)
Genetic Typing Methods in Forensic Science (CCI)

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- 2003 In-Service Training: Biology Screening (ISP)
Bloodstain Pattern Analysis (FBI)
Forensic Digital Imaging (David "Ski" Witzke)
Courtroom Presentation of Evidence (Raymond Davis)
Crime Scene Survey, Documentation and Diagramming (FBI)
Professional Meeting: DNA, Y-STRs, Statistics (Promega)

VALIDATIONS COMPLETED:

Participation in validations included conducting experiments as assigned by the DNA technical lead, analyzing and organizing data and completing the validation summary.

- 2014 FSS-i³™ Expert Systems Software
- 2012 ABI Prism® 3130xl Genetic Analyzer
PowerPlex® System Control DNA 2800M for DNA Database
Promega PowerPlex® 16 HS System for DNA Casework
Promega Plexor® HY System for DNA Casework
- 2011 Promega Plexor® HY System for DNA Database
Promega Identity Automation™ Methods of the Biomek® 3000
Biomek® 3000 Laboratory Automation Workstation
PowerPlex® System Control DNA 2800M for DNA Casework
Driftcon® FFC Temperature Verification System and Fixture Upgrade
- 2010 ABI Prism® 3130xl Genetic Analyzer Upgrade
- 2009 BSD600-Duet Semi-Automated Dried Sample Punch Instrument
Biomek® 3000 Laboratory Automation Workstation
Promega DNA IQ™
Promega PowerPlex® 16 HS System for DNA Database
Applied Biosystems® 7500
ABI Geneamp® 9700 Thermal Cycler
ABI Prism® 3130 Genetic Analyzer
Driftcon® FFC Temperature Verification System
- 2008 Qiagen BioRobot® EZ1
Qiagen® EZ1 Investigator Extraction Kit and Card
ABI Prism® 3130 Genetic Analyzer
ABI Geneamp® 9700 Thermal Cycler
GeneMapper ID® Version 3.2.1
Applied Biosystems® 7500
- 2006 Qiagen BioRobot® EZ1
Qiagen® Tissue Extraction Kit
- 2005 ABI Prism® 7000

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TEACHING; PRESENTATIONS:

- 2003- Present Presentations to law enforcement and medical personnel on: forensic science, collection of biology/DNA evidence, biology screening testing methods, DNA testing methods and CODIS
- 2003-2006 Crime Scene Processing/Biological Evidence Collection and Packaging, 2 hour classroom and 3 hour crime scene practical (Idaho State Police Basic POST Academy)

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