



Idaho State Police

Service Since 1939



Colonel Ralph W. Powell
Director

C.L. "Butch" Otter
Governor

CYNDI HALL

Quality Manager/Laboratory Improvement Manager
Idaho State Police Forensic Services
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Education:

University of California; San Diego
Bachelor of Science – Chemistry/Biochemistry

San Jose State University
Master of Science - Biological Sciences (Molecular Genetics)

Experience:

7/2014-Present	Idaho State Police Forensic Services Quality Manager/Laboratory Improvement Manager
2/2003-7/2014	Idaho State Police Forensic Services Forensic Scientist IV (Biology Supervisor/DNA Technical Lead)
6/2001-2/2003	Idaho State Police Forensic Services Forensic Scientist III (Biology/DNA)
7/1999-6/2001	Santa Clara County District Attorney's Crime Laboratory Supervising Criminalist (Biology/DNA)
12/1998-7/1999	Santa Clara County District Attorney's Crime Laboratory Criminalist III (Biology/DNA)
6/1995-12/1998	Santa Clara County District Attorney's Crime Laboratory Criminalist II (Biology/DNA)
6/1994-6/1995	California Department of Justice, DNA Laboratory Laboratory Technician/DNA Analyst
3/1993-3/1994	San Diego Police Department Crime Laboratory Criminalist Intern (Biology)

700 South Stratford Drive • Meridian, Idaho 83642-6251

EQUAL OPPORTUNITY EMPLOYER

Revised 12/27/16

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Certifications:

2007 American Board of Criminalistics; Molecular Biology Fellow

Professional Organizations; Committees; Working Groups:

2014-present American Society of Crime Laboratory Directors – Member

2014-present Association of Forensic Quality Assurance Managers - Member

2012 – present International Society for Forensic Genetics (ISFG) – Member

2012 - present FBI Quality Assurance Audit Review Committee – Reviewer

2009 – 2011 CODIS 7.0 User Acceptance Testing (FBI) – Working Group Member

2000 – present American Society of Crime Laboratory Directors Laboratory Accreditation Board (ASCLD/LAB) – Legacy/International Assessor

2000 – 2002 Association for Crime Scene Reconstruction (ACSR) - Member

1999 - 2001 California Association of Crime Lab Directors (CACLD) - Member

1995 - present American Academy of Forensic Sciences (AAFS) – Member

1995 – 2003 California Association of Criminalists (CAC) – Member

Testimony:

State Courts – Idaho and California (biological screening and DNA analysis)

Federal Courts – District of Idaho (biological screening and DNA analysis)

Continuing Education; Association Meetings; Conferences:

2016 American Academy of Forensic Sciences Conference: DNA and general Criminalistics

2015 American Academy of Forensic Sciences Conference: DNA and general Criminalistics
American Society of Crime Laboratory Directors Symposium: Quality and Management
STRMIX Training Workshop: Probabilistic Genotyping/STRMix Software
Association of Forensic Quality Assurance Managers Conference: Quality

2014 DNA Mixture Interpretation and Software Evaluation Workshop
NIST Webcast: Validation Concepts
25th International Symposium on Human Identification: DNA

2013 Sorenson Workshop: Y-STRs
American Academy of Forensic Sciences Conference: DNA and general Criminalistics
NIST Workshop/Webcast: DNA Mixture Interpretation
DNA Technical Leader Summit (NIST)

2012 9th Annual Advanced DNA Technical Workshop (Bode) : DNA
Bode Workshop: Mixture Interpretation
Promega Workshop: Bringing Y-STRs into Your Lab
23rd International Symposium on Human Identification: DNA

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- 2011 CODIS 7.0 Training – FBI
Green Mountain DNA Conference: DNA
- 2010 Promega In-Service Training: Biomek 3000 Automation
- 2009 American Academy of Forensic Sciences Conference: DNA and general Criminalistics
Promega In Service Training: Biomek 3000, FSSI³, PowerPlex16 HS, Plexor
(Promega at ISP)
DNAView/Forensic Mathematics -Dr. Charles Brenner
Digital Crime Scene Photography – FBI
- 2008 Genetic Privacy & Familial Searching Symposium: DNA
ASCLD/LAB International Assessor Training – ASCLD/LAB
NFSTC/NIJ Workshop: Validation of an Expert System
Automation Training – Marshall University Forensic Science Center
- 2007 American Academy of Forensic Sciences Conference: DNA and general Criminalistics
Advanced DNA Training – Marshall University Forensic Science Center
Expert Systems for Single-Source Samples – Marshall University Forensic Science
Center and NIJ
Applied BioSystems In Service Training: ABI 7500 and 3130
Promega In-Service Training: Promega FSSI³ Expert System
- 2006 CODIS Training: FBI/SAIC
Applied BioSystems Webinar: Genemapper ID
Hair Examination for DNA Analysts – West Virginia University
DNA Auditor Training – FBI
Promega 17th International Symposium: DNA
- 2005 Missing Persons Clearinghouse Conference
- 2004 Crime Scene Survey, Documentation, & Diagramming – FBI
Northwest Association of Forensic Science Workshop: Hair Examination for DNA
Analysts
Northwest Association of Forensic Science Workshop: Bone Identification
Applied BioSystems In-Service Training: ABI Prism 7000
- 2003-present Bi-Annual CODIS State Administrator’s Meeting
Annual CODIS Conference
- 2003-2008: Annual NIJ conference: DNA
- 2003 American Academy of Forensic Sciences Conference: DNA & general Criminalistics
Bloodstain Pattern Analysis – Jeff Gurvis
Promega 14th International Symposium: DNA
Promega 14th International Symposium Workshop: Y-STRs
Promega 14th International Symposium Workshop: Popstats
Sirchie In-Service Training: Krimesite Imager

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- 2001 DNA/CODIS User's Forum
DNA/DAB Audit training - FBI
American Academy of Forensic Sciences Conference: DNA & general Criminalistics
California Association of Criminalists Conference: DNA
Promega 12th International Symposium: DNA
- 2000 ASCLD/LAB Inspector training – ASCLD/LAB
American Academy of Forensic Sciences Conference: DNA & general Criminalistics
California Association of Crime Lab Directors Conference (program chair):
Management
- 1999 CODIS Local training – FBI/SAIC
ISFH 18th International Congress: DNA
Crime Scene Reconstruction – Tom Bevel and Ross Garner
Applied Biosystems In-service training: DNA/STRs - ABI 377/310
- 1998 American Academy of Forensic Sciences Conference: DNA
Forensic Statistics – CA Criminalistics Institute
In-service Training Santa Clara County DA Crime Lab – Latent Fingerprint
Processing
- 1997 Training/Collaboration: STR Analysis and Instrumentation (ABD-HID)
Forensic Statistics on DNA Analysis – CA Criminalistics Institute
Short Tandem Repeat Analysis – CA Criminalistics Institute
- 1996 Introduction to Statistics – UC Berkeley
Courtroom Presentation of Evidence – CA Criminalistics Institute
California Association of Criminalists Conference (program co-chair): DNA & general
Criminalistics
California Association of Criminalists: Bullet Path Reconstruction Workshop
Santa Clara County Sheriff's and DA Crime Laboratory: Night Photography
Workshop
Promega 7th International Symposium: Statistics Workshop
- 1995 CA Department of Justice Workshop: DNA/D1S80
California Association of Criminalists Conference: DNA
Crime Scene Investigation I – CA Criminalistics Institute
Electrophoresis and Isoelectric Focusing – CA Criminalistics Institute
Promega 6th International Symposium: DNA
- 1994-2001 California Association of Criminalists Study Group Meetings: Biology/DNA
- 1994 In-service training CA Department of Justice: DNA/RFLP
Forensic Serology – CA Criminalistics Institute
Polymerase Chain Reaction – CA Criminalistics Institute
In-service training CA Department of Justice: DNA/PCR-DQ α
Forensic Sciences Overview – CA Criminalistics Institute
- 1993 In-service training San Diego Police Department: Serology

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Validations Completed:

- 2014 FSS-i³™ Expert Systems Software
AeroScout® MobileView Temperature Verification System
- 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
Mideo Sperm Identification System
- 2005 ABI Prism® 7000
- 1998 AmpFlSTR® Profiler Plus and COfiler DNA amplification kits
ABI Prism® 310 Genetic Analyzer

Teaching; Presentations:

An Evaluation of PowerPlex Fusion – Presentation 6/18/13, 9/17/13, 9/22/13 (Promega Seminar at Bode, MAAFS, and NWAFS)

PowerPlex 16 HotStart and Identity Automation – Presentation 9/30/10 (Promega Webinar)

PowerPlex 16 Experiences: Casework and Validation – Presentation 8/19/09 (Promega Workshop, Los Angeles)

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Biological Evidence, DNA and CODIS – Presentation 8/1/09 (visiting Mexican Attorney General Delegation)

DNA, CODIS and Forensic Biology Services – Presentation (Idaho Prosecuting Attorney's Association Meeting 6/07)

Advanced Crime Scene Processing/Evidence Collection and Packaging/DNA, 4 hour classroom and crime scene practicals – Instructor, POST Crime Scene Investigator's Course (2005)
Crime Scene Processing/Biological Evidence Collection and Packaging, 2 hour classroom and 3 hour crime scene practical – Instructor, Idaho State Police Basic POST Academy (2002-2004)

Forensic Biology Services, Evidence collection and packaging, DNA, and CODIS – Training/workshops for law enforcement, judicial, and medical personnel – Idaho State Police (2001-present)

Effects Of Locus, Sequence, and Primers on Stutter Production During PCR Amplification of Tetranucleotide Short Tandem Repeat Loci. – Presentation (CAC Spring Seminar 5/01)

STR Data Interpretation – Presentation 10/1/98 (CAC Study Group Meeting)

STR Validation, Issues Involving the Use of Chelex and Kit Volume Reduction – Presentation (CAC Spring Seminar 10/98)

Validation and Casework Experiences at Santa Clara County Using Profiler Plus – Presentation 6/24/98 (CAC Study Group Meeting)

Evidence Technician Course/DNA Evidence – Instructor, Evergreen College (10/98, 5/01)

Crime Scene Processing and DNA Evidence, 8hr portion of Robert Presley Institute of Criminal Investigation Core Course – Instructor, San Jose State University, Administration of Justice (1997-1999)

Homicide Investigation/DNA Evidence – Instructor, San Jose State University, Administration of Justice (11/95, 5/96)

Crime Scene Processing and DNA Evidence – Trainer for law enforcement and medical personnel – Santa Clara County (1994-2001)

Research; Publications:

Cunnington, C. Database Process Automation Using DNA IQ™, Plexor® HY and PowerPlex® 16 HS Systems on the Biomek® 3000 Workstation. Promega Corporation Web site. <http://www.promega.com/resources/articles/profiles-in-dna/2011/database-process-automation/> Updated 2011. (Profiles in DNA)

Hall, C.R. 2000. "Effects On Stutter Production During Amplification of Tetranucleotide STR Loci." – Master's Thesis (San Jose State University)

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Hall, C.R., et al. 2000. "Validation of the AmpliFISTR Profiler Plus and the AmpliFISTR COfiler PCR Amplification Kits, Using TWGDAM Guidelines." – AAFS Annual Meeting Proceedings, Abstract B77.p.56 (AAFS Meeting 2/00)

Optimization of the Chelex extraction procedure for reduced heme inhibition during amplification. 1997 (Santa Clara County DA Crime Lab in conjunction with Applied Biosystems)

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