1	Final Minutes
2	Scientific Advisory Committee Meeting
3	May 7, 2019
4	Department of Forensic Science, Central Laboratory, Classroom 1
5	
6	Committee Members Present
7	Randall E. Beaty
8	Maureen C. Bottrell
9	Kathleen Corrado, Ph.D. – <i>Chair</i>
10	Robin W. Cotton, Ph.D.
11	Leslie E. Edinboro, Ph.D.
12	Linda C. Jackson
13	Barry S. Levine, Ph.D.
14	George C. Maha, Ph.D.
15	Richard P. Meyers
16	Travis Y. Spinder
17	Kenneth B. Zercie (participated remotely pursuant to Virginia Code § 2.2-3708.2)
18	
19	Committee Members Absent
20	Carl A. Sobieralski
21	Jami J. St. Clair
22	
23	Staff Members Present
24	
25	Wanda W. Adkins, Office Manager
26	Jeffrey D. Ban, Central Laboratory Director
27	David A. Barron, Ph.D., Deputy Director
28	Sabrina S. Cillessen, Physical Evidence Program Manager
29	Amy M. Curtis, Department Counsel
30	Jennie P. Duffy, Breath Alcohol Section Supervisor
31 32	Katya N. Herndon, Chief Deputy Director
33	James W. Hutchings, Ph.D., Toxicology Program Manager Alka B. Lohmann, Director of Technical Services
34	Bradford C. Jenkins, Biology Program Manager
35	M. Scott Maye, Chemistry Program Manager
36	Rebecca Wagner, Ph.D., Research Section Supervisor
37	Carisa M. Studer, Legal Assistant
38	Carisa IVI. Studer, Degai Assistant
39	Call to Order
40	Can to Oruci
41	Kathleen Corrado, Ph.D., the Chair of the Scientific Advisory Committee ("Committee" or
42	"SAC"), called the meeting of the Committee to order at 10:30 a.m. Dr. Corrado informed the
43	Committee that Ken Zercie would be participating remotely pursuant to the SAC's Policy or
44	Individual Participation in Scientific Advisory Committee Meetings by Electronic Means, which
45	was adopted in accordance with Virginia Code § 2.2-3708.2. Mr. Zercie was participating by
-	1 man particular of the state o

telephone from his home office in Madison, Connecticut because he was physically unable to attend in person.

Adoption of Agenda

The Chair asked if there were any additions or changes to the draft agenda for the meeting. Being none, Dr. Cotton made a motion to adopt the agenda, which was seconded by Dr. Maha, and adopted by unanimous vote of the Committee.

Adoption of Minutes of the October 16, 2018 Committee Meeting

The Chair asked if there were any changes or corrections to the draft minutes from the October 16, 2018 meeting. Director Jackson pointed out a statutory citation in the minutes that needed to be corrected in three places. Mr. Beaty moved to adopt the minutes with the corrected statutory citations, which was seconded by Ms. Bottrell, and adopted by unanimous vote of the Committee.

Chair's Report

None.

DFS Director's Report

 Director Jackson announced to the Committee that Alka Lohmann, Director of Technical Services, received the Dr. Kurt M. Dubowski Award at the International Association for Chemical Testing (IACT) Conference. Randall Beaty presented the award to Ms. Lohmann at a banquet held on April 2, 2019 in conjunction with 2019 IACT Annual Conference.

Facilities:

reserve.

Director Jackson updated the Committee on facilities projects with the Central and Western Laboratories. The General Assembly passed HB2057, which removes the requirement that the central office and facilities of the Office of the Chief Medical Examiner (OCME) be located in the City of Richmond. This legislative change was needed so that land outside the City of Richmond could be considered for the Central Laboratory project. The roof on the original Western Laboratory facility was replaced. This project was funded by the Department's maintenance

Agency Initiatives:

Director Jackson informed the Committee that, over the next year, the Department will be providing Arbinger Institute training ("Developing and Implementing an Outward Mindset") for all staff.

Director Jackson updated the Committee on the Department's training for attorneys and judges. The Department provided a one-day DNA Training for attorneys and judges last year in all four regional laboratories. A stakeholder meeting was held on May 2, 2019 to review the results of a survey of attendees from the 2018 DNA Training, seek input on potential changes to the DNA Training, and discuss subjects for the 2019 trainings. DFS plans to offer the DNA Training again

in 2019. A four-hour training on breath alcohol and toxicology for drivers will also be offered at each DFS laboratory in 2019.

Director Jackson reported to the Committee that Amy Curtis, Department Counsel, organized a Forensic Laboratory Counsel Training at the Central Laboratory in April 2019. Approximately 25 attorneys who represent forensic laboratories from across the country attended the training. The training was an opportunity for laboratory counsel to come together to discuss numerous contemporary issues confronting laboratories. The group plans to meet annually moving forward.

Director Jackson shared a Notice Regarding Controlled Substances Submissions that was disseminated to DFS user agencies on March 11, 2019. The Notice provided an update on efforts by DFS to address the increased backlog and turnaround times confronting the Controlled Substances Section.

Director Jackson gave an overview of the industrial hemp laws passed during the 2019 General Assembly Session in response to the federal Farm Bill enacted in 2018, as well as the potential issues created for the Department in determining whether an item is marijuana or industrial hemp. Director Jackson explained that the current Duquenois-Levine field tests cannot differentiate between marijuana and industrial hemp. The Department is currently working with the Drug Enforcement Administration (DEA) to validate a field test kit that will evaluate the ratio of tetrahydrocannabinol (THC) and cannabidiol (CBD) concentrations to assist law enforcement in determining if plant material is marijuana or industrial hemp. There was significant discussion among the members of the Committee regarding industrial hemp and the issues involved for the Department in analysis and reporting.

Budget:

Director Jackson presented the DFS FY20 Budget to the Committee. She noted the \$1,660,000 in emergency funding the Governor approved for the Department for FY19 to provide additional resources in response to the backlog of the Controlled Substances Section.

122 Grants:

Director Jackson presented a summary of current DFS grants and the grant applications waiting for approval from the Forensic Science Board.

She also provided an update on the New York County District Attorney's (DANY) Sexual Assault Kit Backlog Elimination Program grant, which funded the testing of kits collected, but not submitted for analysis, prior to July 1, 2014. Ninety-nine law enforcement agencies submitted 1,805 kits to the private laboratory for testing. The private laboratory completed the testing and submitted the data to DFS for review. The Department reviewed the private laboratory's results, uploaded eligible profiles into the Data Bank for searching, and issued any resulting hit reports. There were 519 profiles searched, and 209 hit obtained as of January 2, 2019.

The National Sexual Assault Kit Initiative (SAKI) Grant allows for testing of kits collected between July 1, 2014 and June 30, 2016. The Office of the Attorney General conducted an inventory that identified 1,232 unsubmitted kits from that time-period. As of May 1, 2019, 772 of those kits have been submitted to the private laboratory for analysis. 138

DFS received funding under the SAKI grant to develop a PERK Tracking System. Beta testing of this system will begin soon. The Department is requesting an additional year of funding for the

141 PERK Tracking System Coordinator grant position.

142143

Workload/Backlog:

Director Jackson provided the Board with an update on statistical trends in each of the scientific disciplines.

146147

Breath Alcohol Subcommittee Report

148

- Randall Beaty, Subcommittee Chair, gave a report of the Breath Alcohol Subcommittee. The Subcommittee met on May 6, 2019 at 3:00 p.m. Subcommittee members provided comments and made suggestions for DFS to consider for the Breath Alcohol Procedures Manual and Worksheets.
 - The Subcommittee closed the review of the Breath Alcohol Procedures Manual and Worksheets.

152153154

Mr. Beaty moved that the Committee accept the Breath Alcohol Subcommittee report, which was seconded by Dr. Edinboro and adopted by unanimous vote of the Committee.

155156157

Toxicology Subcommittee Report

Dr. Les Edinboro, Subcommittee Chair, gave a report of the Toxicology Subcommittee, which met at 8:30 a.m. on May 7, 2019. Subcommittee members provided comments and made suggestions for DFS to consider for two validation documents, Qualitative Analysis of Novel Psychoactive Substances using LCMSMS and Validation Summary of Fentanyl Analog Qualitative Analysis by Protein Precipitation using LCMSMS.

163

The Subcommittee discussed methods in development: Confirmation and Quantitation of Fentanyl Derivatives in Biological Samples by Solid Phase Extraction Using LCMSMS; Qualitative Drugs Screening Using High-Resolution Mass Spectrometry; GHB, GBL, and 1, 4-Butanediol Quantitation and Confirmation Method by LCMSMS; and Nonsteroidal Anti-Inflammatory Drugs Quantitation and Confirmation Method by LCMSMS.

169 170

171172

173

Maureen Bottrell made a motion to have the Department consider the Subcommittee's recommendations made for the validations and methods in development, specifically regarding carryover, retention time criteria, the use of relative retention time for identification purposes, and the ion ratio algorithm (sliding scale). The motion was seconded by Dr. Levine, and passed by unanimous vote.

174175

Richard Meyers made a motion to close the Subcommittee's review of the Toxicology validations and methods in development; the motion was seconded by Dr. Levine, and passed by unanimous vote.

179

Ms. Bottrell moved that the Committee accept the Toxicology Subcommittee report, which was seconded by Mr. Beaty, and passed by unanimous vote of the Committee.

182 183

Program Area Updates

Division of Technical Services Update:

Alka B. Lohmann, Director of the Division of Technical Services (DTS), provided the Committee with a DTS update. Ms. Lohmann reminded the Committee that the Department's current accreditation expires on September 30, 2022. DFS will begin its transition to ISO/IEC 17025:2017 and AR 3125 on June 1, 2019. The offsite surveillance is currently in process. She also noted that the Footwear and Tire Impressions discipline was added to the Western Laboratory's Scope of Accreditation on April 18, 2019.

Ms. Lohmann updated the Committee on the Department's use of Qualtrax, a compliance management software system. One DFS staff member attended the User Conference from April 30 to May 2, 2019. Ms. Lohmann gave an overview of the workflows in development.

Ms. Lohmann reported that the Forensic Training Section is now offering three basic Crime Scene Investigation courses this year due to demand. The Forensic Training Section will offer laboratory capabilities updates to user agencies for all four DFS laboratories.

Ms. Lohmann announced to the Committee that the 45th anniversary of the Forensic Science Academy will be in December 2019 and that the 100th Academy class will graduate in April 2020.

Forensic Biology Program Update:

Brad Jenkins, Forensic Biology Program Manager, provided the Committee with an update on staffing levels for the Forensic Biology program area, including examiners in training and positions in recruit, for each regional laboratory. Mr. Jenkins noted that there are three examiners in relationship training, and ten examiners in Y-STR training.

Mr. Jenkins updated the Committee on the validations that the section is currently conducting, which include the STRmix software in all four laboratories, expanding Y-STR testing to the Eastern and Western laboratories, the new Real Time PCR instruments, and the evaluation of the automated differential extractions.

Mr. Jenkins reported that the combined probability of inclusion (CPI) recalculations previously approved by the Forensic Science Board have been completed. Mr. Jenkins reminded the Committee of the Scientific Working Group on DNA Analysis Methods (SWGDAM) guidelines set in 2010 that began the CPI recalculation project. He reviewed the Department's plan to apply the SWGDAM guidelines retroactively, which was approved by the Forensic Science Board, the Secretary of Public Safety and Homeland Security, and the Office of the Attorney General. Mr. Jenkins gave an overview of the number of cases that required CPI calculations for each laboratory and the preliminary statistics on the number of supplemental reports issued by the Department.

Mr. Jenkins noted that to date, the Department is not aware of any case outcomes affected by the CPI recalculations.

Mr. Jenkins advised the Committee of new buccal sample collectors that will be used for the DNA
Data Bank. The new collectors will allow the Department to store more samples in one space.

The Department's current instrumentation supports the new collectors.

Mr. Jenkins concluded with an update on the status of the Serology Review project. A random sample of serology cases (including at least 100 reports each from the Eastern and Northern Laboratories) are being reviewed. The final reviews of each case have been assigned. Mr. Jenkins gave an overview of observations made during the project.

Chemistry Program Update:

Ms. Lohmann provided the Committee with an update on the Chemistry Program Area for Scott Maye. The Trace Evidence Section held a one-day statewide section meeting at the Central Laboratory in January 2019. Topics covered included "strength of associations" reporting for comparison examiners, and testing protocols, current trends, and ways to ensure consistency between laboratories.

Ms. Lohmann provided an update on the use of the Board of Pharmacy (BoP) expedited regulatory process since the last meeting. The six compounds approved by the BoP in October 2018 became scheduled in April 2019. DFS recommended three additional compounds in January 2019, which the BoP approved in March 2019. These compounds are awaiting publication in the Register of Regulations.

Ms. Lohmann gave a trainee update in the Controlled Substances and Trace Evidence Sections for each laboratory.

Ms. Lohmann updated the Committee on the NIJ grant DFS received for a fire debris study. This two-year project will utilize Analysis, Comparison, Evaluation and Verification (ACE-V) methodology software to develop and validate a data interpretation method for fire debris analysis.

Ms. Lohmann reviewed the actions underway in the Controlled Substances Section to address the workload in the section. She presented the notice to customers sent in April 2019 to explain the outsourcing process. Ms. Lohmann provided the Committee with a sample controlled substances report from the private laboratory.

Ms. Lohmann concluded with an update on the Lean Six Sigma project to increase efficiencies for the Controlled Substances Section. A Request for Proposal will be issued in the near future.

Physical Evidence Program Update:

Sabrina Cillessen, Physical Evidence Program Manager, provided the Committee with an update on the Physical Evidence Program Area. She announced a new supervisor is scheduled to begin at the end of May in the Eastern Latent Prints & Impressions Section. She gave an overview of staffing for the Firearms & Toolmarks, Latent Prints & Impressions, and Digital & Multimedia Evidence Sections, including positions in recruit and positions in training at each laboratory.

Ms. Cillessen reported on the statewide meetings held by the Latent Prints & Impressions and Firearms & Toolmarks Sections.

Ms. Cillessen reviewed the validation project for LatentSleuth and Cadre 3D virtual microscopy.

276 Ms. Cillessen gave an overview of the October 15, 2018 Notice of Policy Change for 277

Administrative Sampling Plan for NIBIN Searches, the March 11, 2019 Notice of DFS Policy

278 Change for NIBIN Potential Association Notifications, and the March 11, 2019 Notice of DFS

279 Policy Change for Automated Results for Digital & Multimedia Examinations.

280 281

Toxicology Update:

282 Dr. James Hutchings, Toxicology Program Manager, provided the Committee with an update on 283 the Toxicology Program Area. The Annual Toxicology Section Meeting was held on December 284 3, 2018.

285 286

Dr. Hutchings gave an overview of the Toxicology Section's turnaround time for OCME cases and DUI/DUID cases from 2017 to 2019.

287 288 289

290

291

Dr. Hutchings updated the Committee on the Breath Alcohol Section's online recertification course for Breath Alcohol operators. To date, approximately thirty percent of officers are utilizing the online recertification. He also updated the Committee on the Breath Alcohol Section instrument enhancement.

292 293 294

Dr. Hutching concluded by reviewing the grants and staffing for the Toxicology program area.

295

Old Business

296 297 298

299

300

301

302

303

304

Microscopic Hair Comparison Case Review:

Amy Curtis, Department Counsel, provided an update on the progress with the Microscopic Hair Comparison Case Review since the last Committee meeting. The Microscopic Hair Comparison Case Review Subcommittee approved a notice to inmates, which was distributed by the Department of Corrections in December 2018. DFS is continuing to review positive probative cases from the historical case file review to identify additional cases for the project. The Review Team met on March 11, 2019 to review transcripts from eight cases. The Subcommittee will meet on May 13, 2019 to discuss the recommendations for notification made by the Review Team.

305 306 307

308 309

310

311

312

313

314

Proposed Amendments for Field Test Regulations:

Amy Curtis updated the Committee on the status of the proposed amendments to the Regulations for the Approval of Field Tests for Detection of Drugs (6VAC40-30.) The Forensic Science Board approved the proposed amendments at its October 17, 2018 meeting. The Department submitted the agency statement to the Office of the Attorney General on November 30, 2018. The Office of the Attorney General provided its certification in March 2019. The Secretary of Public Safety and Homeland Security conducted its review on May 3, 2019, and the proposed amendments are now at the Governor's office for review. Ms. Curtis reviewed the next steps in the regulatory process once the amendments are approved by the Governor's Office.

315 316 317

New Business

318 319

Annual Election of Committee Chair and Vice Chair:

320 The Chair called for the annual election of the Committee Chair and Vice-Chair. The Chair asked 321 for nominations for Chair of the Committee, and Mr. Meyers nominated Dr. Corrado for reelection as Committee Chair. The nomination was seconded by Ms. Bottrell, and passed by majority vote of the Committee. Dr. Corrado abstained. The Chair asked for nominations for Vice-Chair. Dr. Maha nominated Ms. Bottrell to be Vice-Chair. The nomination was seconded by Dr. Corrado, and passed by unanimous vote of the Committee.

326327

The Chair called for a brief recess at 12:10 p.m.

328

The Chair called the meeting back to order at 12:17 p.m.

330

Dr. Corrado noted an additional minor correction that needed to be made to the October 16, 2018 minutes and requested a motion. Mr. Spinder made a motion that the minutes be amended to reflect the correction (on line 202, changing the word "by" to "after"). The motion was seconded by Dr. Edinboro and passed by unanimous vote.

335

Public Comment

336337

338 None.

339

Future Meeting Date

341

The Scientific Advisory Committee will meet on October 2, 2019 at 9:00 a.m.

343344

Adjournment

345

Dr. Corrado asked if there was a motion to adjourn. Dr. Maha made a motion to adjourn the meeting of the Scientific Advisory Committee, which was seconded by Dr. Edinboro, and passed by unanimous vote.

349

350 The meeting adjourned at 12:20 p.m.