2	Final - Minutes Scientific Advisory Committee Meeting
3	October 14, 2016
4 5	Department of Forensic Science, Central Laboratory, Classroom 1
6	Committee Members Present
7 8	Leslie E. Edinboro, Ph.D., Chair
9	Maureen C. Bottrell
0	Robin W. Cotton, Ph.D.
1	Jo Ann Given (participated remotely pursuant to Code § 2.2-3708.1)
2	Linda C. Jackson
3	Richard P. Meyers
	Carl A. Sobieralski (participated remotely pursuant to Code § 2.2-3708.1)
	Travis Y. Spinder
	Jami J. St. Clair
	Kenneth B. Zercie
	Committee Members Absent
	Randall E. Beaty
	George Maha, Ph.D.
	Staff Members Present
	Wanda W. Adkins, Office Manager
	Jeffrey D. Ban, Central Laboratory Director
	Sabrina Cillessen, Physical Evidence Program Manager
	Amy M. Curtis, Department Counsel
	Katya N. Herndon, Chief Deputy Director
	Bradford C. Jenkins, Biology Program Manager
	James Hutchings, Ph.D., Toxicology Program Manager
	Alka B. Lohmann, Technical Services Director
	M. Scott Maye, Chemistry Program Manager
	Carisa M. Studer, Legal Assistant
	Call to Oudon
	Call to Order
	Leslie Edinboro, Ph.D., the Chair of the Scientific Advisory Committee ("Committee" or
	"SAC"), called the meeting of the Committee to order at 9:05 a.m. Dr. Edinboro informed the
	Committee that Jo Ann Given and Carl Sobieralski would be participating remotely pursuant to
	the SAC's Policy on Individual Participation in Scientific Advisory Committee Meetings by
	Electronic Means, which was adopted in accordance with Virginia Code § 2.2-3708.1. Ms.
	Given participated by telephone from Virginia Beach, Virginia, because of medical reasons. Mr.
	Sobieralski participated by telephone from Indianapolis, Indiana, due to an ongoing assessment
	at his laboratory.

Adoption of Agenda

- 49 Dr. Edinboro asked if there were any additions or changes to the draft agenda for the meeting.
- Being none, Mr. Zercie made a motion to adopt the agenda, which was seconded by Ms. St.
- 51 Clair, and adopted by unanimous vote of the Committee.

Adoption of Minutes

The Chair asked if there were any changes or corrections to the draft minutes from the May 10, 2016 meeting. Being none, Director Jackson made a motion to adopt the minutes from the May 10, 2016 meeting, which was seconded by Mr. Zercie, and adopted by unanimous vote of the Committee.

Chair's Report

Dr. Edinboro welcomed the Committee members and thanked them for their attendance.

Dr. Edinboro spoke about the recent passing of Dr. Alphonse Poklis, who had been a member of the Scientific Advisory Committee since its inception in 2005. Dr. Edinboro spoke about Dr. Poklis' body of work in toxicology and his many professional accomplishments. The Committee observed a moment of silence in honor of Dr. Poklis.

Dr. Edinboro did not have a report for the Committee for this meeting.

DFS Director's Report

Facilities:

Director Jackson reported to the Committee that the formal ribbon cutting ceremony to celebrate the expansion and renovation of the Western Laboratory was held on September 26, 2016. Secretary of Public Safety and Homeland Security Brian Moran, Secretary of Administration Nancy Rodrigues, and Secretary of Health and Human Resources William A. Hazel, Jr., all participated in the ceremony. Tours were given of both the DFS and Office of the Chief Medical Examiner (OCME) facilities.

Director Jackson also updated the Committee on the status of the facilities project for the Central Laboratory. SFCS, the same firm that was awarded the contract for the Western Laboratory project, was selected as the Architecture and Engineering firm for the Central Laboratory expansion project. The Department of General Services conducted a parking study for the Central Laboratory project, which included a geotechnical survey of the current parking surface to determine the feasibility of digging underground at that location. The selection of a Construction Manager at Risk is still underway.

Agency Events:

- 90 Director Jackson informed the Committee that the comprehensive physical evidence recovery kit
- 91 (PERK) legislation (Virginia Code § 19.2-11.5 through 19.2-11.11) went into effect on July 1,
- 92 2016. The legislation establishes a comprehensive procedure for the consistent collection,

handling, storage, and analysis of PERKs. Information about the requirements of the legislation was provided to DFS customers, and a notice was posted to the Department's website. To date, DFS has seen a 42% increase in PERK submissions, but Director Jackson anticipates having a better estimate on the long term impact to PERK submissions by the next Committee meeting.

Director Jackson reported to the Committee that DFS released a joint report with the Department of Criminal Justice Services (DCJS) on September 20, 2016, entitled "Drug Cases Submitted to the Virginia Department of Forensic Science CY 2015." DCJS used data provided by DFS to show drug trends in various areas of the Commonwealth broken down by Virginia State Police Divisions. The report, which is posted on the DFS website, is an update to a report first released in 2013.

Director Jackson informed the Committee that the Department purchased Qualtrax, which is a quality and compliance management software that will maintain accreditation, certification and training documentation and streamline the workflow of business processes. Administrative training on the system for DFS staff was held in September 2016. The Department hopes to go live with Qualtrax in January 2017.

Director Jackson announced to the Committee that the Department is beginning to plan for the implementation of upgrades to the Laboratory Information Management System (LIMS), which will include pre-log and electronic Certificate of Analysis dissemination. It will allow users all over the state to access the system utilizing a secure portal. DFS will use AuthXAccess software for username and password management. The Department has received training materials for users from North Carolina who have implemented the same system. DFS will start with a pilot program for selected agencies. The Office of the Chief Medical Examiner (OCME) has already agreed to be a pilot agency.

Director Jackson updated the Committee on the historical case file project. DFS now has five wage employees scanning Certificates of Analysis from its archived case files (1973-1994) that are not in LIMS and entering data about each case into a database. To date, information from approximately 28,000 (out of approximately 1,000,000) case files has been uploaded to the new database. The Department has been able to use the information uploaded to the new database to identify cases for the serology and microscopic hair comparison case reviews.

Budget Overview:

Director Jackson presented the Governor's FY17 budget reduction savings plan announced on October 13 to the Committee. DFS had pledged \$100,000 of its FY16 Year End General Fund balance to offset potential reductions in FY17. Director Jackson explained that the Chief of Staff had requested agency heads to submit potential savings strategies to equal 5% of their budget for consideration for FY17, which equates to approximately \$2 million for the Department's budget. The budget reduction plan announced on October 13 included a budget reduction of \$1.1 million for the Department. Director Jackson went over the Department's FY17 reductions, the most significant of which is the elimination of the Questioned Documents Section. The additional funding that was allocated to the Department for forensic biology and firearms during the 2016 General Assembly Session was held harmless from the FY17 reductions.

- 139 Agency heads will be advised in the near future of targets for the FY18 reductions. The
- Department will subsequently prepare and submit its FY18 budget reduction strategies. The
- Governor's Office will announce the FY18 reductions when the budget is released in December.

142143 Grants:

- Director Jackson presented an overview of DFS grants to the Committee. She noted that the
- 145 FY16 DNA Capacity Enhancement and Backlog Reduction grant funding was higher this year.
- The FY16 Paul Coverdell grant will be used for continuing education in the Chemistry, Physical
- 147 Evidence and Toxicology program areas. The FY16 New York County District Attorney's
- 148 (DANY) Sexual Assault Kit Backlog Elimination Program grant is being used to fund the testing
- of previously untested sexual assault kits.

150

- 151 The Department was awarded an NIJ grant to increase laboratory participation in research. DFS
- will develop and validate instrumentation for toxicology analyses. The Department was also
- awarded a grant for research and evaluation for the testing and interpretation of physical
- evidence in publicly funded laboratories. The Latent Prints Section will participate in evaluation
- of the Latent Sleuth technology.

156

- Another new grant for the Department is the FY17 Highway Safety Project Grant (DMV)
- 158 TREDS (Traffic Records Electronic Data System) program. DFS and the OCME are recipients
- of this grant. It will be used to decrease the turnaround time of data from the OCME to DMV in
- 160 cases involving motor vehicle fatalities. DFS will receive funds to hire four part-time laboratory
- specialists to assist in the Toxicology Section. Additionally, funds will be used to contract with
- the Department's LIMS vendor to create a mechanism to electronically distribute information
- 163 from DFS to the OCME.

164

- 165 The FY16 Byrne Justice Assistance Grant will be used to increase the capacity of the Forensic
- 166 Training Section.

167

- 168 Finally, Director Jackson explained the National Sexual Assault Kit Initiative (SAKI) grant. The
- SAKI grant will be used to fund the testing of any untested kits collected from July 1, 2014 to
- June 30, 2016. DFS will also use SAKI funds to purchase or develop a PERK tracking system.

171

Workload/Backlog:

- 173 Director Jackson provided the Committee with an update on statistical trends in each of the
- program areas. The report shows statewide statistics for each laboratory section. She explained
- the new definition of the term "received" for these reports. The term "received" is the total
- number of cases received or created by the section in the quarter.

177

- 178 Director Jackson reported that the Controlled Substances Section continues to see an increase in
- submissions. The VSP has a new drug task force team focused in and around Amherst County
- that has been fairly active. Additional localities are also participating in other VSP partnership
- drug task forces that may explain the increase in drug submissions.

- The Firearms Section is also continuing to see an increase in cases being submitted for NIBIN
- entry. DFS was given funding for additional staff in the Firearms Section, and it has created a

new Forensic Scientist NIBIN position. The training period for these positions is only six months whereas it takes 24 months to train a regular Forensic Scientist in the Firearms Section. DFS also received funding to purchase NIBIN equipment for its Northern and Western Laboratories so now DFS has statewide NIBIN capability.

The case turnaround times in the Forensic Biology Section continues to be higher than desired due to additional statistical reports required for each reported profile and an increase in PERK submissions. DFS anticipated that PERK submissions would double based on the new legislation, but since July 1, they have only increased approximately 40%. DFS will continue to monitor PERK submissions. The Department received funding for six additional forensic scientists to analyze PERKs.

Director Jackson informed the Board that there are three trainees in the Latent Prints Section that should be fully trained in the near future, which will improve turnaround times for latent prints.

Director Jackson reminded the Board that the Questioned Documents Section is being eliminated. The Section receives approximately 20 to 30 cases per month. Notices advising DFS customers that DFS will no longer be accepting evidence for questioned document examinations will be sent out today.

Director Jackson updated the Committee on the progress of recruiting and training the six new positions DFS received in the Toxicology Section. She also noted that DFS is in the process of recruiting the four wage employees to assist the Toxicology Section that are funded by the TREDS grant.

In the Trace Evidence Section, the training of the newly hired primer residue and explosives examiners is almost complete. DFS restored explosives examination services in June 2016 and has re-hired a retired examiner to perform technical reviews of cases until the Explosives Trainee has completed the training.

Director Jackson advised the Committee that she informed the Forensic Science Board of the recent report from the President's Council of Advisors on Science and Technology (PCAST). She noted that she provided a brief overview of PCAST and shared the link to the report, as well as links to responses to the report, with the Board members.

Program Area Updates

Forensic Biology Program Update:

Brad Jenkins, Biology Program Manager, provided the Committee with an update on the Department's Forensic Biology Program Area. Mr. Jenkins reminded the Committee that the Department has implemented the new fusion chemistry in the DNA Data Bank. The validation of the Powerplex Fusion Kit for case work is underway and will go online in 2017. Instruments were delivered in September to the Central and Eastern Laboratories. The validation will be sent to the SAC DNA Subcommittee, which includes Dr. Cotton, Dr. Maha and Mr. Sobieralski.

Mr. Jenkins informed the Committee that the Serology Case Review began in May 2016. DFS has pulled 100 serology cases from both the Northern and Eastern Laboratories, which are currently being reviewed by two DFS forensic biology examiners with serology experience. Jami St. Clair has volunteered to assist as the independent external reviewer. She will be reviewing a subset of 20% of files reviewed. Ms. St. Clair began her review on October 13. Mr. Jenkins will present a findings report to the Committee at a future meeting.

Mr. Jenkins advised the Committee that he has been able to utilize grants to support the Department's transition to the new fusion chemistry. This has included the purchase of new instruments for casework and software. Grant funding will also be used for a research staff position that will assist in method development and validation for screening PERK cases for male DNA. A new liquid handling instrument for the Data Bank will be purchased which should increase efficiencies in that section. Grant funds are being used for outsourcing certain PERK cases to the private laboratory; once analyzed, those cases are returned to DFS for review and issuance of a final report and uploading into CODIS, if eligible.

Mr. Jenkins reported to the Committee on the revisions DFS made to its recommended collection time periods for PERK samples. DFS issued a policy notice advising user agencies of this change on September 16, 2016. The notice includes a chart that specified types of assault, and the maximum collection time for each type. Mr. Jenkins noted that the most significant changes include allowing vaginal samples for rape allegations to be collected for up to 120 hours and for saliva samples on skin to be collected for up to 96 hours. DFS anticipates it may see an increase in PERK submissions, but not a significant increase, as a result of the expansion of the collection times.

Mr. Jenkins concluded by thanking Ms. St. Clair for taking the time to review cases for the serology case review project.

Chemistry Program Update:

Scott Maye, Chemistry Program Manager, provided the Committee with an update on the Department's Chemistry Program Area. The validation project involving elemental analysis using laser induced breakdown spectroscopy (LIBS) in the Trace Evidence Section is nearing completion. Mr. Maye reminded the Committee that the validation of LIBS will allow for the analysis of lithium in clandestine methamphetamine laboratory samples. The Trace Subcommittee met in May and provided suggestions to the Department. The suggestions were adopted, a screening method was created, and standard operating procedures are being drafted. Mr. Maye went over the process of developing a lithium screening method using Ion Chromatography (IC). A quality assurance procedure for the LIBS has been developed and a QA report will be generated with each use and become part of the case file. Additional method development will be performed involving clandestine laboratory reaction mixtures to support identification of other elements in the future.

Mr. Maye reported to the Committee about staffing levels in the Controlled Substances Section. In the Northern Laboratory, there are two trainees who are expected to have their training completed in November 2016 and January 2017, and one new examiner completed training in

August 2016. The Western Laboratory has one recently-hired trainee, and two examiners that completed training in July 2016. The Central Laboratory also has one recently-hired trainee.

The Central Laboratory has two Trace Evidence Section trainees, one in explosives and one in primer residue. Both are expected to complete training in December 2016. Once their training is complete, DFS will assess what additional training they will receive in other trace evidence subdisciplines.

There was discussion of the Trace Evidence Subcommittee setting a meeting date in the future, possibly before the next Committee meeting.

Physical Evidence Program Update:

Sabrina Cillessen, Physical Evidence Program Manager, provided the Committee with an update on the Physical Evidence Program Area. Ms. Cillessen updated the Committee on the increased submissions of firearms for function testing in the National Integrated Ballistic Identification Network (NIBIN) database. She gave an overview of the new NIBIN positions. Since the positions will not be doing comparison work, the training period will be reduced from 24 to six months. The NIBIN examiners will issue Certificates of Analysis reporting NIBIN correlation results, but if a subsequent comparison analysis is required, it will be transferred to a regular firearms examiner for the additional analysis. Once all of the NIBIN examiners have completed training, she anticipates improvement in turnaround time and number of cases completed.

Ms. Cillessen gave a brief update on the Latent Prints Section. Examiners in this section are participating in a research project funded by the NIJ grant. The project is to evaluate Sciometrics Latent Sleuth software. DFS will be able to purchase the software and hire one wage positon. There are two phases to the project, which has a goal of determining whether Latent Sleuth saves search time and reduces examiner fatigue in complex cases. The Latent Prints Section currently has two trainees in the Central laboratory and one in the Eastern laboratory whose training is expected to be complete in December 2016.

Ms. Cillessen reported that one new impressions examiner was recently qualified, so now DFS has three examiners in impressions. Two examiners participated in a West Virginia University research project that aims to better understand how experts examine and interpret footwear impressions.

Ms. Cillessen spoke briefly about the Questioned Documents Section. There are two examiners and one position that had been in recruitment for approximately one year. DFS will discontinue this service by January 2017.

Ms. Cillessen informed the Committee that the Digital and Multimedia Evidence (DME) Section has continued to host training courses in the Northern Laboratory, which allows for DFS to receive complementary registrations at these training. One new examiner will be fully qualified in November 2016.

321 Toxicology Update:

- 322 Dr. James Hutchings, Toxicology Program Manager, provided the Committee with an update on
- 323 the Toxicology Program Area. He presented the new report format for toxicology cases. The
- 324 new format will reduce the time required for typing and reviewing Certificates of Analysis. Dr.
- 325 Hutchings reminded the Committee of the new DUID testing scheme that he presented at the last
- 326 Committee meeting. The new testing scheme and report format have been beneficial for OCME
- 327 cases.

328 329

330

331

Dr. Hutchings informed the Committee that DFS has been monitoring to determine the impact of the <u>Birchfield v. North Dakota</u> decision on the Toxicology Section. To date, the only identified impact has been an increase in search warrant submissions compared to implied consent submissions.

332 333 334

335

336

337

Dr. Hutchings reminded the Committee that the Breath Alcohol Section continues to increase available public access to its records. The expansion of website capabilities includes test results by instrument site and test results by gender. The Breath Alcohol Section is in compliance with new ASCLD supplemental requirements. Dr. Hutchings will be giving a demonstration of the Intox EC/IR II instrument at the upcoming Virginia Indigent Defense Commission conference.

338 339 340

341

342

343

Dr. Hutchings updated the Committee on staffing for the Toxicology Section. There have been twelve positions filled in the past year. Currently, there are two forensic scientists in Toxicology, two forensic scientists in Breath Alcohol, one toxicology laboratory specialist, and one toxicologist in training. DFS was budgeted funds for six new positions in Toxicology that are currently in the hiring process.

344 345 346

Other Business

347

Microscopic Hair Comparison Case Review:

348 349 Amy Curtis, Department Counsel, updated the Committee on the progress of the Microscopic 350 Hair Comparison Case Review project. The Board had established a Subcommittee to develop 351 and recommend a review process for DFS hair comparison cases. Ms. Curtis summarized the 352 Subcommittee's work on the review process. A review team of two attorneys and one DFS 353 examiner with serology experience will review transcripts and recommend to the Subcommittee 354 whether notification should be made to the parties. Ms. Curtis reviewed the three questions that 355 the Review Team will use to evaluate the transcripts. The Subcommittee recommended to the 356 Board that the Review Team consider context during the transcript review, and the Board 357 approved adding the consideration of context language to the transcript review guidance 358 document. The Review Team will hold its first meeting to review transcripts on October 27, 359 2016. Linda Czyzyk from the Staunton Public Defender's Office and Earl Wheeler from the 360 Newport News Public Defender's Office will serve as the two attorneys on the review team, and Bob Scanlon will be the DFS scientist. Ms. Curtis will be speaking at the IDC conference next 361 362 week and will meet with Ms. Czyzyk and Mr. Wheeler to provide them with background 363 materials and the transcripts for review in advance of the meeting.

364 365

366

The Department has been able to utilize the work of the historical case file project staff to identify cases with microscopic hair examinations. Of the approximately 28,000 cases reviewed thus far and entered into the database, 651 of the cases involved microscopic hair examinations.

One of the wage employees has been trained to help review and screen the cases involving hair examinations into three categories: no comparison, comparison (not probative), and positive (probative) association. Quality assurance reviews of the screened cases are being conducted.

Of the 651 cases involving microscopic hair examinations, 98 cases were identified as having positive, probative associations. Those 98 cases are ready for the next step in the process.

The next step will be to confirm conviction information for the 98 cases and to locate transcripts or transcript substitutes, where appropriate. DFS does not have the staff or resources for this. DFS reached out to Mary Tate, who runs the Actual Innocence Clinic at the University of Richmond, T.C. Williams School of Law, to request assistance in identifying students who may be interested in working on the project. Ms. Tate offered the assistance of her students from the Actual Innocence Clinic that starts in January 2017. Ms. Curtis and Ms. Herndon plan to meet with Ms. Tate to provide her with background materials and have a more detailed discussion about how Ms. Tate's Clinic students may be of assistance. Ms. Curtis anticipates that the Review Team should have additional cases to review by March 2017.

Other Business Continued

Dr. Edinboro reminded the Committee that the toxicology seat on the SAC will need to be filled.

The DNA Subcommittee will meet prior to the next Committee meeting in May to discuss the Forensic Biology Fusion Validation. Mr. Jenkins will send the validation report to the subcommittee members in early 2017.

Public Comment

394 None.

2017 Meeting Dates

The Scientific Advisory Committee's 2017 meetings were scheduled for Tuesday, May 23, 2017, and Wednesday, October 11, 2017.

Adjournment

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

The meeting adjourned at 10:40 a.m.