

## **RESUME**

### **Paul Johannes Murphy**

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#### **EDUCATIONAL QUALIFICATIONS AND COURSES**

- |     |   |           |
|-----|---|-----------|
| 1.  | Grade 12  | 1976      |
| 2.  | National Certificate in Police Administration   | 1981      |
| 3.  | A one-year course in:<br>Mathematics N3; Machines and Properties of Metals N4; Mechanotechnics N4   | 1984      |
| 4.  | South African Police Certificate in Forensic Firearm and Toolmark Examinations for Specialists  |           |
| 5.  | South African Police Service Officer's Course   | 1990      |
| 6.  | Forensic Science Society Diploma in Firearms Examination<br><i>(A theoretical and practical examination on the Forensic Ballistics)</i>   | 1995      |
| 7.  | An advanced program in Forensic Criminalistics at the University of<br>South Africa (UNISA)<br><i>(Two years theoretical and one year internship)</i><br><u>Subjects passed</u><br>Forensic Tactics; Recording of the Crime Scene<br>Forensic Ballistics I Forensic Ballistics II<br>The Law and Forensic Criminalistics I The law and Forensic Criminalistics II | 1997      |
| 8.  | IBIS (Integrated Ballistic Identification System) Operator's Course   | 1998/2002 |
| 9.  | Smith & Wesson Sigma Pistol Armorer's Course  | 1997      |
| 10. | Glock Dealer Seminar with Basic Armorer's Information   | 1997      |
| 11. | ATF Serial Number Restoration (State and Local)   | 1999      |
| 12. | Glock Armorer's Course  | 2000      |

My academic studies and extensive training programs in the specialized area of Forensic Firearm and Toolmark examinations were evaluated by Washington Evaluation Services and found to be academically equivalent to a Bachelor of Science degree in Forensic Sciences as required by an accredited U.S. university.

#### **PROMOTIONAL RECORD**

Promotional record for 21 years uninterrupted service in the South African Police Service can be detailed as follows:

- 1977 - Joined South African Police Service
- 1982 - Promoted to Sergeant
- 1984 - Join the Forensic Ballistic Laboratory
- 1987 - Promoted to Warrant Officer
- 1990 - Promoted to Lieutenant
- 1992 - Promoted to Captain
- 1994 - Promoted to Major
- 1996 - Promoted to Senior Superintendent (Colonel): Appointed Provincial Commander of the Eastern Cape Province Forensic Ballistic Laboratory
- 1999 to October 2005 - Virginia Department of Forensic Science Eastern Laboratory, Norfolk Virginia as a Forensic Scientist  
III (Firearms and Toolmark Section), (ASCLD accredited Laboratory).
- November 2005 to November 2024 – LeadsOnline formerly Forensic Technology – Senior Firearms Technical Advisor/Forensic Firearms Examiner

#### **DUTIES AS FORENSIC SCIENTIST III VIRGINIA DFS**

1. Functions as a Forensic Scientist III in the Firearms Section of the Eastern Laboratory of the Division of Forensic Science. Independently performs comprehensive scientific analysis on a diversity of evidence submitted by law enforcement agencies. Uses “state of the art” knowledge of methodologies, techniques and instrumentation related to the analysis of firearms and tool marks. Interprets results and prepares reports of findings for use by the criminal justice system. Maintains ammunition reference collection and technical reference files.
2. Interpret data, prepare Certificates of Analysis. Follow all protocols, safety and quality assurance procedures.
3. Prepare court exhibits and testify in court as an expert witness (testified approximately 62 times in Commonwealth of Virginia Circuit Court, District Court and US Federal Court).
4. Provide user agency training.
5. Participate in personal professional development.
6. Follow policies and procedures.
7. Entering of Images into NIBIN (National Integrated Ballistics Information Network)

### **DUTIES AS COMMANDER SOUTH AFRICAN POLICE SERVICE EASTERN CAPE FORENSIC BALLISTIC LABORATORY**

Managing the South African Police Service Eastern Cape Province Forensic Ballistic Laboratory. Duties and responsibilities consisted of the following:

1. Fully responsible for the efficient functioning of the Forensic Ballistic Laboratory, Eastern Cape Province, within the parameters of authority.
2. Primary fields of responsibility:

#### **MANAGEMENT INFORMATION**

- a. Keeping abreast of personnel responsibilities and areas of work by means of personal involvement, instructions and feedback.
- b. Following of Management Policy.
- c. To ensure that all policy decisions taken by the Management Board of the Forensic Science Laboratory and National Ballistic Management Board is applied by all members of the Forensic Ballistic Laboratory Eastern Cape.

#### **PLANNING**

- a. The compiling and reviewing of a strategic plan for the Eastern Cape Forensic Ballistic Laboratory.
- b. To draw up objectives in compliance with the strategic plan.
- c. The compiling of objectives in cooperation with all members of the Eastern Cape Forensic Ballistic Laboratory and the implementation thereof.

#### **SUPERVISION AND CONTROL**

- A. In command of all personnel of the Eastern Cape Forensic Ballistic Laboratory.
- B. Responsible for appearance, good order, control and discipline of all personnel of the Eastern Cape Forensic Ballistic Laboratory.
- c. Advise subordinates and adjudicate all affairs concerning the activities of the Eastern Cape Forensic Ballistic Laboratory.
- d. Evaluate the quality of training and ensure that the training of trainees is according to prescribed standards.
- e. Audit case files, computer information of case files, registers and training matters.
- f. Keeping of statistics.
- g. Planning of activities and budgeting for future needs and expansions.

#### **LIAISON**

- a. Liaise with the management of firearms-, ammunition-, propellant- and tool factories as well as medicolegal laboratories.
- b. Liaise with the media when required.

### TRAINING

- a. Presentation of lectures to detectives, state prosecutors, medical students and all other interest groups.
- b. Supervision of basic advanced and continuous training of all personnel of the Eastern Cape Forensic Ballistic Laboratory.
- c. Evaluation of internal and external Forensic Ballistic training officers.

### ACCREDITATION

- a. Supervision of Accreditation by South African National Accreditation Society (SANAS) which is based on the American Society of Crime Laboratory Directors (ASCLAD).

### OCCUPATIONAL SAFETY

- a. Supervision and application of Occupational Safety Regulations.

### RESEARCH

- a. Continuous research in the field of Forensic Ballistics.
  - b. Continuous improvement of existing examination techniques and development of new examination techniques.
3. Case work, ie. Firearms and Toolmark examination.
  4. Attendance of high-profile crime scenes and postmortems.
  5. Giving of expert evidence in court cases.
  6. Training of Firearms Examiners and Trainees.
  7. Attendance of South African Police Service, Eastern Cape Province, Provincial Management Meetings.
  8. Procurement of Forensic Ballistic Equipment.

### **FORENSIC BALLISTIC EXPERIENCE**

1. Experience in Firearms and Toolmark examination - 40 years.
2. Completed more than 8,000 (eight thousand) Forensic Ballistic examinations to date.
3. Attended numerous postmortems and exhumations involving gunshot wounds.
4. Attended and reconstructed numerous firearm related crime scenes.
5. Give expert evidence on a regular basis in Regional and High Courts of South Africa and Neighboring Countries (approximately 100 times).
6. Frequently lectured Detectives, Medical Students and State Prosecutors on Forensic Ballistics and gunshot wounds.
7. Trained Integrated Ballistic Identification System (IBIS) operator.
8. Continuously involved in training of Firearm Examiners for the South African Police Service Forensic Ballistic Laboratory.
9. Appointed to assist the D'Oliveira Commission of Enquiry into alleged Third Force activities by Security Force Members.
10. Appointed to numerous high priority Forensic Ballistic Examinations.
11. Written a chapter on Ammunition and Reloading for the University of South Africa's (UNISA) handbook on Ballistics for the Advanced Certificate Program in Forensic Criminalistics.
12. Whilst based in Pretoria from 1984 until August 1996:
  - A member of the South African Bureau of Standards (SABS) Technical Committee on Firearms and Ammunition for civilian use.
  - The coordinator of external Forensic Ballistic Training (Detectives, Medical Students and State Prosecutors).
  - Acted as the Inspector of commercial reloading premises in cooperation with the South African Police Service Central Firearms Registry.
  - Curator of the Forensic Laboratory Reference Firearms collection (5 000 firearms in the collection).
  - The media liaison officer for the Forensic Ballistic Laboratory.
  - Arranged Forensic Ballistic exhibitions at the South African "Big Shot Show" during 1994 and 1995.

- Arranged Forensic Ballistic exhibitions at the Rand Easter Show and Pretoria Show during 1994, 1995 and 1996.
- Did a Television Program on AK47 Assault Rifles during 1995 for NHK Television, Japan.
- 13. Visited and studied manufacturing techniques at numerous firearms-, ammunition-, propellant- and tool-factories in the Republic of South Africa, ie. Pretoria Metal Pressings (PMP), Lyttelton Engineering Works (LEW), Swartklip Products, Somchem, Republic Arms, New Generation Ammunition (NGA), Musgrave, Council for Scientific and Industrial Research (CSIR), Gerotek, Armament Corporation of South Africa and (ARMSCOR), Armament Repair and Modification (ARAM), ASERMA, and cooperated on numerous projects with them.
- 14. During 1992 coordinated and conducted an evaluation program for a new assault rifle for use in the South African Police Service.
- 15. Appointed to establish a new Forensic Ballistic Laboratory in the Eastern Cape Province during 1996.
- 16. In 1997 I visited numerous Forensic Ballistic Laboratories in the United States and Germany.

### **TRAINING BACKGROUND**

Tuition received in the following subjects:

1. Microscopic individualization of firearms, ammunition, spent bullets and cartridge cases.
2. Microscopic individualization of tools and toolmarks.
3. Photography, Highspeed Photography, Microscopic Photography and Micro Photography
4. Identification, development and reloading of ammunition.
5. Restoration of obliterated marks on metals.
6. Internal Forensic Ballistics:
7. Intermediate Forensic Ballistics:
8. External Forensic Ballistics:
9. Terminal Forensic Ballistics:
10. Ballistic examination and reconstruction of crime scenes.
11. Photographing and documentation of results.

### **AWARDS**

1. South African Police Medal for Combating Terrorism -1979, 1981 and 1982.
2. South African Police Medal for Faithful Service - 1987.
3. South African Police Seventy-fifth Anniversary Commemorative Medal - 1988.
4. South African Police Service Amalgamation Medal - 1994
5. South African Police Service Star for Faithful Service – 1997

### **PROFESSIONAL AFFILIATIONS**

Member of the following organizations:

- Association of Firearms and Toolmark Examiners (AFTE). Membership Number 1093. Member since 1989. Distinguished Member since June 2000.
- During 1997 attended the Association of Firearms and Toolmark Examiners - AFTE Training Seminar in Annapolis, Maryland. Presented a paper titled "Homemade Firearms as an Instrument of Violence in South Africa".
- Published two articles in the Association of Firearms and Toolmark Examiners (AFTE) Journal:
  1. "Mikrosil Casting of Pool Tables" Volume 29, Number 2, Spring 1997
  2. "Reloading Die Mark on Bullet Nose and Positive Identification with Bullet Seating Die" Volume 30, Number 2, Spring 1998
- Attended AFTE Training Seminar during 1999 at Williamsburg, Virginia.

- Attended AFTE Training Seminar during 2000 at St Louis, Missouri
- Attended AFTE Training Seminar during 2006 at Springfield, Massachusetts
- Attended Australia/New Zealand Forensic Science Meeting during 2006 at Perth, Australia
- Attended ENFSI meeting during 2006 at Copenhagen, Denmark
- Attend IFTS Meeting during 2007 Sun City, South Africa
- Attended AFTE Training Seminar during 2007 at San Francisco, California
- Attended AFTE Training Seminar during 2008 at Honolulu, Hawaii
- Attended ENFSI meeting during 2008 at Dubrovnik, Croatia
- Attended XIX All India Forensic Science Conference during 2009 at Ahmedabad, India
- Attended AFTE Training Seminar during 2009 at Miami, Florida
- Attended IFFS Meeting during 2008 at Cancun, Mexico
- Attended ENFSI Meeting during 2009 at Wiesbaden, Germany
- Attended ENFSI Meeting during 2010 at Paphos, Cyprus
- Attended ENFSI Meeting during 2023 at Brussels, Belgium
- Attended ENFSI Meeting during 2024 at Vienna, Austria
- Attended AFTE Training Seminar during 2010 at Henderson, Nevada
- Attended CONEBAL Meeting during 2011 at Mexico City, Mexico
- Attended 2 nd South-East Europe Ballistic Identification Seminar during 2011 in Montenegro
- Attended GITBAF Seminar during 2011 at Guatemala
- Attended IFFS Meeting during 2011 at Lyon, France
- Attended AFTE Training Seminar during 2011 at Chicago, Illinois
- Attended AFTE Training Seminar during 2012 at Buffalo, New York
- Attended CONEBAL Meeting during 2012 at Tijuana, Mexico
- Attended 3 rd South-East Europe Ballistic Identification Seminar during 2012 in Zagreb, Croatia
- Attended IFFS Meeting during 2013 at Montreal, Canada
- Attended AFTE Training Seminar during 2013 at Albuquerque, New Mexico
- Attended AFTE Training Seminar during 2014 at Seattle, Washington
- Attended CONEBAL Meeting during 2014 at Merida, Mexico
- Attended AFTE Training Seminar during 2015 at Dallas, Texas
- Attended AFTE Training Seminar during 2016 at New Orleans, LA
- Attended CONEBAL Meeting during 2016 at La Paz, Baja California Sur, Mexico
- Attended AFTE Training Seminar during 2017 at Denver, Colorado
- Attended AFTE Training Seminar during 2018 at Charleston, WV
- Attended AFTE Training Seminar during 2019 at Nashville, TN
- Attended AFTE Training Seminar during 2021 at Miami, FL
- Attended AFTE Training Seminar during 2022 at Atlanta, GA
- Attended CNC Meeting during 2022 at Campinas, Sao Paolo, Brazil
- Attended AFTE Training Seminar during 2023 at Austin, TX
- Attended CNC Meeting 2024 at Sao Luis, Brazil
- Attended AFTE Training Seminar during 2024 at Anchorage AK
- Former Board Member AFTE Board of Admissions.
- Currently Member of AFTE Training/Standardization Committee.
- Currently Member of Tidewater Military Collectors Society
- Former member of British Forensic Science Society

## **REFERENCES**

### **Pete Gagliardi**

Retired ATF SAC New York  
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### **Johann Claassens**

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### **Director P.R. Gouws**

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