

Curriculum Vitae

Kevin R. Burke

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Professional Profile

Kevin Burke, a dedicated expert in detecting and arresting drug-impaired drivers, spent 25 years in law enforcement. His involvement in hundreds of impaired driving cases and drug influence evaluations and classifications, along with several testimonies as a deputy sheriff and expert witness, showcase his unwavering commitment to his profession.

He is a Standardized Field Sobriety Tests and Drug Recognition Expert instructor.

His innovative approach to his work is evident in his creation of The Burke Test, a unique divided attention test he developed.

He has presented at multiple local, national, and international conferences and received numerous awards.

Currently, Kevin Burke is dedicated to writing a book on detecting, arresting, and convicting drug-impaired drivers from a biological standpoint. Titled Intoxication vs. Impairment: The Anatomy and Physiology of the Impaired Driver, this book is a testament to his ongoing commitment to the field and his efforts to share his expertise with a wider audience.

Specialized Training

June – July 2024

How to Start, Build, and Run a Successful Expert Witness Practice

October 2019

Crisis Intervention Training

Crisis Intervention Team (CIT) training is a community initiative designed to improve the outcomes of police interactions with people living with mental illnesses. CIT programs are local partnerships between law enforcement, mental health providers, local National Alliance on Mental Illness (NAMI) chapters, and other community stakeholders. CIT programs provide 40 hours of training for law enforcement on how to better respond to people experiencing a mental health crisis.

November 2018

Novel Psychoactive Substances (NPS) symposium

The two-day symposium was designed to highlight the current state of the NPS crisis in the United States by examining topics ranging from the manufacture and distribution, efforts at interdiction and disruption, understanding motivations for NPS use, and public impacts in both emergency rooms and morgues.

September 2017

The Highs and Lows of Drug-Impaired Driving

July 2017

Medical Foundations of Visual System Testing for DREs and Prosecutors

This course was taught by Karl Citek OD, Ph.D., FAAO. Dr. Citek is widely recognized as an expert on Horizontal Gaze Nystagmus (HGN) and other eye movements. He has testified as an expert witness for the prosecution on the admissibility of HGN and DRE evidence at numerous hearings and trials around the U.S. This course provided the medical and scientific foundations of the various components of the DRE protocol, including the eye tests, vital signs, and psychophysical and divided attention tests. Some of the sections of this course were anatomy and physiology of the eye and related structures; central nervous system; cognitive function. Drug effects on the body, the eyes, and visual perception.

September 2016

Robert F. Borkenstein Course on the effects of drugs on human performance and behavior.

The Borkenstein Drug Course covers topics related to the pharmacology of drugs and their effects on psychomotor performance and driving. This is the most advanced course available anywhere for toxicologists and law enforcement professionals in this topic of growing concern. The course is taught by internationally acknowledged experts who discuss the pharmacology, toxicology, and human performance effects of major drug classes associated with impairment. The range of topics has been expanded to include the implementation of laws and strategies for investigating, identifying, and documenting drug-impaired individuals.

August 2016

Understanding Legal Marijuana

This three-day course was designed to provide an overview of legal marijuana and what was occurring around the country and the state and federal law conflict; Medical Marijuana, a review of prior legislative efforts and likely medical marijuana system, including permissions and prohibitions, should it be enacted; the definition

of Marijuana the Drug and the products that are available in legal and illicit markets, including edibles and concentrates; mechanisms of delivery; traditional detection methods: historical roadside methods and techniques; discussing the current existing toxicology methods and state of the science concerning marijuana impairment; alternative detection methods – new and useful tactics honed on the streets to help prove up a case; how to prepare yourself as well as dealing with prosecutors who may be inexperienced or lacking knowledge about these kinds of cases; report writing in anticipation of trial; defending your investigation against bias arguments.

May 2016

**Borkenstein Course on Alcohol and Highway Safety:
Testing, Research, and Litigation.**

This was a one-week expert-level program of on-campus instruction and interaction on medico-legal alcohol topics. The primary emphasis in most of the presentations was on alcohol about traffic safety, covering basic alcohol chemistry and physiology, principles of measurement of alcohol in blood and breath, and presentation of alcohol information in the courtroom.

May 2013

Standardized Field Sobriety Tests (SFST) Instructor School

December 2013

Advanced Roadside Impaired Driving Enforcement (ARIDE)

November 2012

Instructor Development School

August 2006

Standardized Field Sobriety Tests (SFST)

Teaching/Instruction

Standardized Field Sobriety Tests (Gateway Technical College Law Enforcement Academy)

2024 November – 49 recruits (32 hours)

2024 April - 26 recruits (16 hours)

2023 November – 38 recruits (16 hours)

- October – 6 recruits (16 hours)
- April – 26 recruits (16 hours)

2022 November – 30 recruits (16 hours)

- April – 30 recruits (16 hours)

2021 November – 38 recruits (16 hours)

- June – 33 recruits (16 hours)
- January – 12 recruits (8 hours)

2020 August – 12 recruits (16 hours)

- April – 20 recruits (16 hours)

2019 November – 26 recruits (16 hours)

- August – 9 recruits (8 hours)
- August – 15 recruits (24 hours)
- May – 29 recruits (24 hours)

2018 November – 25 recruits (16 hours)

- April - 26 recruits (16 hours)

2017 December - 13 recruits (16 hours)

- September - 22 recruits (16 hours)
- May - 18 recruits (16 hours)

2016 November – 21 recruits (8 hours)

- April – 21 recruits (28 hours)
- April - 8 recruits (16 hours)

2015 November - 15 recruits (8 hours)

- August – 15 recruits (16 hours)
- April – 10 recruits (16 hours)
- April - 21 recruits (16 hours)

Drugs that Impair Driving (Gateway Technical College Law Enforcement Academy)

2024 November – 49 recruits (8 hours)

2024 April - 26 recruits (8 hours)

2023 November – 38 recruits (8 hours)

- October – 6 recruits (8 hours)
- May – 26 recruits (8 hours)

2022 November – 30 recruits (8 hours)

- April – 30 recruits (8 hours)

2021 November – 38 recruits (8 hours)

- June - 33 recruits (8 hours)

2020 August – 12 recruits (8 hours)

2019 September – 9 recruits (8 hours)

2018 December – 25 recruits (8 hours)

- April – 26 recruits (8 hours)

2017 December - 13 recruits (8 hours)

- September - 22 recruits (8 hours)
- May - 18 recruits (8 hours)

2016 May - 21 recruits (8 hours)

2015 November – 15 recruits (8 hours)

- August – 15 recruits (8 hours)
- April - 21 recruits (8 hours)

Drug Recognition Expert School

2024 November – 24 candidates (40 hours)

2022 October & November – 16 candidates (40 hours)

- April – 17 candidates (24 hours)

2021 October & November - 17 candidates (32 hours)

- April – 25 candidates (24 hours)

2020 October - 20 candidates (16 hours)

2019 September – 13 candidates (16 hours)

- May - 16 candidates (16 hours)

2018 September - 24 candidates (24 hours)

- April – 19 candidates (24 hours)

2017 August – 19 candidates (16 hours)

- April – 24 candidates (24 hours)

2016 April & May - 22 candidates (40 hours)

2015 August & September – 22 candidates (56 hours)

Advanced Roadside Impaired Driving Enforcement (ARIDE)

2023 December – 20 law enforcement officers (16 hours)

2020 December:

- 14th & 15th - 14 law enforcement officers (16 hours)
- 9th & 10th - 19 law enforcement officers (16 hours)
- 3rd & 4th - 13 law enforcement officers (16 hours)

2020 March - 19 law enforcement officers (16 hours)

2018 February – 25 law enforcement officers (16 hours)

2017 August- 30 law enforcement officers (16 hours)

Route 961 Training and Consultants

Lectures focused on the effects marijuana has on the human body and an overview of the endocannabinoid system.

2019 June Community Advocates: 20 attendees

2018 Oct 420 4 Educated Professionals: 6 attendees

2018 Sept 420 4 Patrol: 16 officers from various agencies

2022 May Taught the Racine County Sheriff's Office Drug Recognition Experts regarding the anatomy and physiology of impaired driving (in-service training).

2022 Feb & March Taught the Racine County Jail Correctional Staff regarding the identification of the signs of narcotic analgesic overdose (in-service training).

2017 November	Taught three Racine County Circuit Court judges about the history and importance of the Drug Recognition Expert program.
2016 November	Taught the Racine County Human Services Department about the effects that the seven categories of impairing drugs have on the human body.
2015 November	Taught the Racine County Juvenile Case Workers regarding synthetic cannabinoids, aka synthetic marijuana and designer drugs, i.e., Novel Psychoactive Substances.
2015 May	Taught the Racine County Sheriff's Office Patrol Division, Metro Drug Unit, and Investigative Bureau regarding Horizontal Gaze Nystagmus and the effects that the seven categories of impairing drugs have on the human body.
2015 January	Taught several members of the Racine County District Attorney's Office regarding drug-impaired driving when alcohol is not an impairing drug and the value of a Drug Recognition Expert in such cases.
2014 November	Taught approximately 100 probation and Probation and Parole agents about the effects of heroin.
2014 September	Taught 33 Probation and Parole agents about the effects that the seven categories of impairing drugs have on the human body.

Presentations

November 2022 **9th annual International Novel Psychoactive Substance Conference, Panama City, Panama.**

Presented his abstract, *Has the CB1 made SFST obsolete? The role of The Burke Test in measuring the cognitive efficiency of the drug-impaired driver.*

October 2022 **Florida Traffic Safety Prosecutor Vin Petty's webinar**

Presented his abstract, *Intoxication vs. Impairment: Anatomy and Physiology of the Impaired Driver.*

June 2022 **Institute of Police Technology and Management Traffic Safety Symposium
Orlando, FL.**

Presented his abstract, *Intoxication vs. Impairment: Anatomy and Physiology of the Impaired Driver.*

April 2019 **6th annual International Novel Psychoactive Substance Conference
Maastricht, The Netherlands.**

Presented his abstract, *The Problem with the Standardized Field Sobriety Tests in America.*

February 2018 **Opioids: Killing More than Pain Symposium

Kenosha, WI.**

His presentation focused on the problem opioids posed to law enforcement.

Awards & Commendations

2022 State of Wisconsin Drug Recognition Expert of the Year

Racine County Sheriff's Office Outstanding Police Service

2020 Racine County Sheriff's Office Employee of the Month (March)

2019 State of Wisconsin Drug Recognition Expert of the Year

2015 State of Wisconsin Drug Recognition Expert of the Year

State of Wisconsin Top Ten Drug Recognition Expert

2014 State of Wisconsin Drug Recognition Expert of the Year

State of Wisconsin Top Ten Drug Recognition Expert

2010 Racine County Sheriff's Office Award of Excellence

2008 Racine County Sheriff's Office Exemplary Deputy.

2006 Racine County Sheriff's Office Exemplary Deputy

2005 Racine County Sheriff's Office Award of Excellence

2001 Lifesaving Certificate of Appreciation

Employment

November 1998 – December 2023: Racine County Sheriff's Office (RASO)

Throughout my career with the Racine County Sheriff's Office, I had multiple side employment (as a deputy sheriff), such as the Racine County Fair, Racine County Boat Show, armed security at a bar, etc.

(March 2017 – October 2021 - Comprehensive Drug Testing, Chaperone

April 2015 – Present - Gateway Technical College: Adjunct Law Enforcement Instructor

February 2005 – August 2010, Wind Point Police Department, Police Officer

2008 September – 1999 December - Racine Unified School District (school security officer

United States Navy (Aviation Hydraulic Mechanic): July 1988 – July 1991

Education

Earned approximately two-thirds of the required credit hours toward Bachelor of Science degrees in Psychology and Kinesiology while attending the University of Wisconsin – Parkside and the University of Wisconsin – Milwaukee in the early to late 1990s.

Membership

2016 August - present The International Association of Chiefs of Police – Drug Recognition Expert section:

2017 May – 2016 May International Association for Chemical Testing

Publications

Burke, K. (2024). *Backward God?! Maitland, FL: Xulon Press.*

Kevin is writing *Intoxication vs. Impairment: The Anatomy and Physiology of The Impaired Driver*. This book (not yet published) addresses the difference between intoxication and impairment. Some of the subjects of this book are Pharmacology: pharmacokinetics/pharmacodynamics, i.e., lipophilic vs. hydrophilic; cognitive impairment vs. physical impairment and a combination of both; toxicology: why a person can be impaired even with a “no drugs detected” toxicology report; the importance of the sliding

filament theory concerning Horizontal Gaze Nystagmus; how drugs of impairment cause a disruption of the homeostatic balance, i.e., understanding parasympatheticmimetic and sympathetic mimetic drugs; how drugs must attach themselves to a receptor(s) to become psychoactive; what psychoactive truly means; how the Standardized Field Sobriety Tests came to be; and what their limitations are; the definition of what a drug is regarding impaired driving enforcement.

Specialized reading

Cannon, Walter. (1963). *The wisdom of the body*. New York, N.Y: W. W. Norton & Company, Inc.

Caplan, Yale, Goldberger, Bruce. (2015). *Garriott's medicolegal aspects of alcohol* (6th ed.). Tucson, AZ: Lawyers & Judges publishing company, Inc.

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Grinspoon, Lester, Bakalar, James. (1997). *Psychological drugs reconsidered*. New York, N.Y: The Lindsmith Center.

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Katzung, Bertram and Trevor, Anthony. (2001). *Basic and clinical pharmacology*. New York, N.Y. McGraw-Hill Companies, Inc.

Lundy-Ekman, Laurie. (1998). *Neuroscience fundamentals for rehabilitation* (3rd ed.). St. Louis, MO: Saunders Elsevier, Inc.

Department of Transportation. (1995). *A Colorado validation study of the standardized fields sobriety test (sfst) battery*. Aspen, Co: NHTSA

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- Pacher, P., Batkai, S., & Kunos, G. (2006) Endocannabinoid system as an emerging target of pharmacotherapy. *Pharmacol rev*, 58(3) 389-462.
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- American Prosecutors Research Institute. (2003). Admissibility of horizontal gaze nystagmus evidence. St. Louis, MO: Anheuser-Busch Foundation

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