



# THEWAY LABS

Laboratories / Failure Analysis / Energy Consultants  
Electrical, Mechanical, Petro-chemical, Natural  
[www.TheWayLabs.com](http://www.TheWayLabs.com)

17350 E US 64 Hwy  
Bixby, OK 74008  
918-496-8709  
[mod@thewaycorp.com](mailto:mod@thewaycorp.com)

## ABOUT US

THEWAY Labs is a *failure analysis* firm engaged in electrical-magnetic, mechanical, petro-chemical, hybrid, and natural energy specialties. We have technical experts who are experienced in the cross-discipline sciences necessary to understand failures. In addition, we provide exceptional experienced consultants as well as origin & cause technicians.

*Failure analysis* has two perspectives. In the first facet, we conduct research for major clients testing their product until it fails. In the second facet of determining the cause of failures, we support the insurance and legal communities in subrogation, defense, and liability risk. *What can we do to help you solve your problems?*

## LAB

We have established the premier research laboratory in the region. Our research on lightning, grounding, and power systems has been ground-breaking, resulting in numerous publications. Our electrical analysis equipment is second to none. In addition, we have other lab equipment for analysis of equipment from computers to appliances and bulldozers. Our location allows research with high temperature & pressure, high electrical energy, and explosives.

## SERVICES

Our lab facilities permit us to provide a unique service for fire and failure investigations. Some losses are well-defined in terms of area or equipment that contributed to the incident. For risk and losses that support the concept, the investigator collects the items and arranges delivery to our lab for analysis.

Because of their extensive experience and first-class equipment, our scientists can conduct a more detailed analysis at less cost to the client. For certain investigations, we have established a not-to-exceed cost for the client. This is very cost effective for small, mid, and large losses. *Our professionals provide premier service and experience at a competitive price point.*

## ACCELERANT DETECTION CANINE

We have the only certified accelerant detection canine in the region for both public or private service.

## PROFESSIONALS

**Dr. Robert A. Durham, BSEE, MS, PhD**, Principal & COO, electrical, petro-chemical, & natural energy

*Background:* energy, utility systems, petro-chemical, failure analysis, 20+ years

*Publications:* over 40 articles and papers and 8 books

Sr Member, Institute of Electrical & Electronics Engineers  
Diplomate, Am Board of Forensic Engineering & Technology  
Diplomate, American College of Forensic Examiners Int'l  
Cert. Forensic Consultant, Am. College of Forensic Examiners  
Licensed Electrical Contractor

Cert Fire & Explosion Inv. & Cert Vehicle Fire Inv. - NAFI  
Member, Int'l Assoc of Arson Investigators-OK  
Member, IEEE Standards Association  
Voting Member - Electrical, Nat'l Fire Protection Assoc

**E. Brook Durham, BSME**, Sr. Consultant for mechanical systems.

*Background:* petro-chemical, manufacturing, consulting, failure analysis, 15+ years

*Publications:* 2 papers on emerging technologies

Diplomate, Am Board of Forensic Engineering & Technology  
Diplomate, American College of Forensic Examiners Int'l  
Cert. Forensic Consultant, Am. College of Forensic Examiners  
Cert Fire & Explosion Inv. & Cert Vehicle Fire Inv. - NAFI

Member, American Society of Mechanical Engineers  
Voting Member, Nat'l Fire Protection Assoc-Engr & Bldg Off.  
Member, Int'l Assoc of Arson Investigators-OK

**Jason Coffin, BS Computer Science, MBA**, Sr Scientist, construction, electrical, petroleum, natural energy

*Background:* telecommunications, computer technology, petroleum, construction, failure analysis, 10+ years

*Publications:* 3 papers and 2 books on electrical and failures.

Certified Fire & Explosion Investigator, NAFI  
Certified Vehicle Fire Investigator, NAFI  
Building Safety Professional Member, Int'l Code Council

Certified Lead Renovator, EPA  
Member, Int'l Assoc of Arson Investigators-OK & AR  
Member, American College of Forensic Examiners Int'l

**Dr. Marcus O. Durham, BSEE, ME, PhD, ThD**, Sr. Principal, electrical, petro-chemical & natural energy

*Background:* power systems, petro-chemical, academia, failure analysis, energy, 45+ years

*Publications:* over 140 articles and papers and 14 books

Life Fellow, American College of Forensic Examiners Int'l  
Life Fellow, Institute of Electrical & Electronics Engineers  
Life Senior Member, Society of Petroleum Engineers  
Diplomate, Am Board of Forensic Engineering & Technology  
Licensed Electrical Contractor  
Licensed Commercial Radiotelephone & Amateur Extra

Cert Fire & Explosion Inv. & Cert Vehicle Fire Inv. - NAFI  
Certified Homeland Security, ABCHS  
Member, Int'l Assoc of Arson Investigators-Nat'l & OK  
Member, IEEE Standards Association  
Registered Investigator, Am Bd of Registered Investigators  
Professor Emeritus, U of Tulsa