

Barnett Forensic Services, Inc.

Engineering, Product Liability, Fire/Explosion Investigations, Motor Vehicle Crash Reconstruction

Providing clients with the highest quality services for more than twenty-five years

Robert Walson Ph.D Metallurgical Engineer

Since 1983 Dr. Robert Walson, Ph. D. has lived in Central Indiana serving industry, insurance companies, legal firms, and government agencies as a consultant in failure analysis and forensic investigations. His primary consulting has been in the mechanical or structural failures of automobiles, trucks, agricultural equipment, glass consumer products, laboratory fire analysis, medical device failures, firearms failures, and engine malfunction analysis.

Dr. Walson is currently employed as Adjunct Professors (part time) both at Butler University in the Chemistry Department and with Purdue University in the Mechanical Engineering Department at IUPUI in Indianapolis. He helps undergraduate students effectively learn general chemistry including organic chemistry, the application of the Scanning Electron Microscopy (SEM/EDS) to forensic analyses (especially paints and fire debris), the mechanical analysis of material strengths of components in designs, and testing of materials in the laboratory.

Dr. Walson has experience in agricultural equipment design and materials, industrial equipment design and materials, and consumer product design and materials at the Corporate Staff of the John Deere Company. He also has experience in the design and materials of engines at the Research and Quality Departments of Cummins Engine Company. He has taught at black Hawk Community College (Moline, Illinois), Purdue University (Columbus Indiana, West Lafayette Indiana, and Indianapolis), Butler University (Indianapolis), and the University of Bridgeport (Connecticut). He is currently a member of the American Society for Testing and Materials (ASTM), the Society of Automotive Engineers (SAE), the American Society for Materials (ASM), and the American Welding Society (AWS).

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CURRICULUM VITAE

NAME: **ROBERT P. WALSON, PH.D.**
Failure Analyst

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Indianapolis, Indiana 46260-2817
Telephone: 317-251-9157, 800-832-6933
FAX: 317-251-9157
E-mail: rwalson@iquest.net or rwalson@butler.edu

HIGHER
EDUCATION: DOCTOR OF PHILOSOPHY; Ph.D., Metallurgical Engineering, 1974, University of
Illinois, Urbana

MASTER OF SCIENCE; M.S., Physics, 1967,
University of Illinois, Urbana

BACHELOR OF SCIENCE; B.S., Engineering Physics, 1965, University of California,
Berkeley

PROFESSIONAL EXPERIENCE:

1983 **WALSON & CO. INC., Indianapolis, Indiana**
PRESIDENT: Able to effectively complete
projects related to failure analyses of machines, hydraulic hoses, ladders, hammers, autos,
trucks, gears, and farm machinery of varying designs on time within budget. Expert witness
for over sixteen years plus state and federal court qualified in Indiana and other states.

2000 **PURDUE UNIVERSTIY (IUPUI), Indianapolis,**
to **Indiana**
2001 ASSOCIATE FACULTY, Department of Mechanical
Engineering: Teaching undergraduate students
"Mechanics of Materials" and "Statics".

1990 **BUTLER UNIVERSITY, Indianapolis, Indiana**
to ADJUNCT PROFESSOR, Department of Chemistry:
NOW able to effectively teach the use of the Scanning Electron Microscope (SEM) to faculty and
students plus teach courses in experimental chemistry labs. Maintain the SEM and EDS
surface X-ray analysis equipment for the Chemistry Department and for forensic studies.

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1991 **SAE SEMINAR TEACHING, Detroit, Michigan**
to Society of Automotive Engineers Seminar:
1992 "Advanced Materials: Potential for Innovative
Design".

SUMMER **UNIVERSITY OF BRIDGEPORT, Bridgeport, Connecticut**

1987 VISITING PROFESSOR, Department of Mechanical Engineering: Able to effectively communicate Engineering Mechanics and Engineering Materials to undergraduate students.

1985 **ADIABATICS INC., Columbus, Indiana**
to PROGRAM MANAGER, Advanced Natural Gas Fueled
1986 Engine: Able to complete design and analyses of this engine parts on time and within budget. Also successfully operated ceramic valve seat inserts in a full size industrial engine for 300 hours.

1984 **PURDUE/INDIANA UNIVERSITY at West Lafayette, Indianapolis, and Columbus, Indiana**
to ASSISTANT PROFESSOR, Mechanical Engineering Technology: Materials and Processes,
1985 Strength of Materials, Power Systems, Machine Elements, and Machine Design. Help students to learn fundamental ideas, concepts, and theories of engineering and science.

1978 **CUMMINS ENGINE COMPANY, INC., Columbus, Indiana**
to MANAGER, Central Reliability Failure Analysis Lab:
1983 Able to successfully complete diverse projects covering several engineering requirements. This included overseeing the Central Reliability Failure Analysis Lab to investigate the failure of engine parts and materials, components, and engine systems returned from all factory locations and customers worldwide. This included the use of the Scanning Electron Microscope (SEM), and Energy Dispersive Spectroscopy (EDS) for surface X-ray analyses.

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1974 **BLACK HAWK COMMUNITY COLLEGE, Moline, Illinois**
to ADJUNCT INSTRUCTOR, Mechanical Technology:
1975 Able to motivate and creatively teach metallurgy and engineering stress analyses to evening students who were continuing their higher education at night.

1973 **DEERE & CO. INC., Moline, Illinois**
to RESEARCH ENGINEER, Technical Center:
1978 Able to complete the development of: 1) failure analyses of worldwide products and components for agriculture, industrial equipment, and accessories, 2) high temperature cast irons alloyed with aluminum; 3) lightweight aluminum combine structure; 4) lightweight composite leaf spring for snowmobile; 5) composite drive shaft design; and technical consultant to other divisions and factories worldwide.

TECHNICAL

PUBLICATIONS:

Joseph D. Eckelbarger/Robert A. Pribush/Morgan S. Hansill/Jeremy M. Getz/Robert P. Walson, "A Pigment Analysis of Paints by the Toas Society of Artists," National ACS Meeting, Anaheim, CA, March 20-25, 1999, Poster Session.

Joseph D. Eckelbarger/Robert A. Pribush/Jenny Brand/Robert P. Walson, "A Pigment Study of Post-Depression Recovery Program Murals," 114th Meeting of the Indiana Academy of Sciences, Park Tutor School, Indianapolis, IN, October 31, 1998

Jenny Brand/Robert A. Pribush/Robert P. Walson, "Chemical Analyses of African Paint Pigments," National ACS Meeting, New Orleans, 1996, Poster Session #107

R. Kamo, R. Walson, et al., "High Tech Valve Train Materials Testing," 6th CIMTEC Meeting, Milan, Italy, 1986

R. Walson, et al., Bearings Lubricated with Graphite, 1984

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R.P. Walson, et al., Ceramic Turbocharger Development, 1984

R.P. Walson, et al., Aluminum Piston Alloy Examination, 1978

R.P. Walson, Cast Engine Exhaust, 1977

R.P. Walson, et al., Mechanical Mechanisms in Niobium Metal, 1974

R.P. Walson, et al., Chemical Etching of Niobium Metal, 1974

R.P. Walson, et al., Deforming Germanium Semiconductor Material, 1971

R.P. Walson, et al., Manufacturing Technique for Cutting Semiconductors Used in Computers, 1971

PATENTS: Cutting of Germanium Semiconductor Materials used in Computers, R. Walson et al., 1970

TECHNICAL SOCIETIES:

American Society for Materials International(ASM)

American Society for Testing and Materials(ASTM)
Society of Automotive Engineers(SAE)

CONFIDENTIAL

INTERNAL
COMPANY
REPORTS

INCLUDING: Confidential reports of aerosol can explosions, failures of: machines, hydraulic hoses, ladders, hammers, gears, autos, trucks, helicopters gears, farm machinery, tools, containers, fire arms structural failures, and chemical spills. This includes the basis for court qualified trial testimony in state and federal courts of several states.

TESTIMONY BY DEPOSITION OR TRIAL - ROBERT P. WALSON, Ph.D.

DATE:	CAPTION:	COURT:	
CAUSE#			
6/23/06 CT-449	Dunkelberger vs Waitt Elevator Co.	IN Hamilton County Superior Court	29D02-0405-
4/11/06 49D12-0401-PL-000109	Muncie Tool Vs Fastenal	IN Marion County Superior Court	
3/17/06 CT-402	Pollitt Vs Don's Auto Sales	IN Fayette County Circuit Court	21C01-0308-
5/5/06 48D03-0206-CT-00503	Ginley vs United Abrasives, et al.	IN Madison Superior Court	
1/21/05	John Kafer vs Cory Hack	IL Vermillion County Circuit Court	01L69
5/18/04 CV-1301-DFH-WTL	Henderson vs Freightliner	IN Southern US District Indianapolis	1:02-
8/14/02 11091-AO	Virginia King v. Canandaigua Wine Co.	15thJudicial Circuit Ct., Palm Beach, FL	CL 01-
7/19/01 1745	Karel Kirk v. Ed Martin Honda, et al.	IN Marion County Superior Ct.	49D06-9612-CT-
7/16/01 D/F	Donna Garvin v. Officer Wheeler, et al.	IN Southern US District Indpls	IP98-1243 C
6/14/01 49D10-0003-CP-449	Mid America Management Corp v.Chad Nickle and Davian Meek	IN Marion Superior Court Judge David J. Dryer	
5/9/01 CP-0223	Ag One Co-Op v. Filbrun Construction Co.	IN Madison Superior Court Indiana	48D02-9904-

3/22/01	Nettie McKenzie v. Betty A. Miller	IN Wabash Circuit Court Indiana	
85C01-9912-CT-558			
11/8/00	Miller v. Allied Signal, et al.	US District Court Southern District	IP98-
1742 C-M/S		of Indiana, Indianapolis Division	
10/20/00	Granite State Insurance v. Tay Geen Co.	US District Court Connecticut	3:98CV2365
(CFD)			
1/04/00	State of Indiana v. James Simmons	IN Marion County Criminal #3	49G03-0003-CF-
039653			