

## We provide assistance with:

- ✓ Process Optimization & Cost Savings
- ✓ Chemical Research & Development
- ✓ Chemical Synthesis & Purification
- ✓ Chemical Analysis
- ✓ Product Formulation
- ✓ Research Feasibility Proposals
- ✓ Staff Tutorials
- ✓ Laboratory Management
- ✓ Statistical Data Analysis
- ✓ Suppliers & Market Research
- ✓ Acid/Base/Buffer Chemistry
- ✓ Oxidation/Reduction Reactions
- ✓ Physical Properties of Materials
- ✓ Polymer Formulation & Properties
- ✓ Metals & Metal Oxides
- ✓ Magnetic & Electrical Properties
- ✓ Crystal Structure
- ✓ Semiconductor Processing/Cleaning
- ✓ Agriculture & Food Processing
- ✓ Radon & Radiation Monitoring
- ✓ Vulnerability Assessment
- ✓ Chemical Hygiene & Safety
- ✓ OSHA & Safety Compliance
- ✓ Regulatory & Waste Disposal

Need help with other issues? Call us -  
We understand your molecules and we  
will help you reduce costs and improve  
your products!

• Research • Analysis • Safety • Training •



**Joseph E. Sabol, Ph.D.**  
Principal - Consultant

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## Joseph E. Sabol, Ph.D. Chemical Consulting Services

- Does your company want to reduce its operating costs?
- Does your company want to advance its position in today's market?
- Does your company need an independent evaluation of its products and processes?
- Does your company have projects that your staff never has time for?
- Does your company have challenging regulatory issues?
- Does your staff need assistance with problems and issues that cannot be solved with current information and methods?
- We can provide the technical expertise that is necessary for your company to solve today's problems and prepare for tomorrow.

For more information or a confidential  
evaluation, contact:

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## Organization Profile

Founded in 1999 to provide research and development services to the chemical and electronic materials industry.

Provides each client with confidential, on-site evaluation and independent advisory and consultation services.

Works with each client to provide flexible arrangements that address the individual needs of each client.

Our goals are to exceed the expectations of each client.

## Client Benefits

Access to experienced, informed, and independent analysts.

A confidential assessment of technical and market information.

A better understanding of the molecular basis of products and processes.

Expanded R&D without adding employees or additional overhead.

Control of fixed costs.

Recommendations that result in savings that exceed the cost of services.

If you do not understand your chemistry, you cannot improve your process or products. We will help you understand your molecules!

## Services Offered

Support in product and process R&D project planning, marketing, and regulatory compliance.

Recommendations and assistance in chemical analysis and laboratory management.

Chemical and physical analysis of materials, including "unknown" substances.

Independent assessment of a client's in-house research and conclusions.

Tutorial seminars on theoretical principles, experimental design, and statistical analysis.

Recommendations to optimize process operating conditions and reduce raw material and energy costs.

Assistance to each client in meeting and exceeding government regulatory, employee safety, and environmental requirements.



## Testimonials

"Sabol Consulting was able to address our concerns in a timely and thorough fashion . . . demonstrates a strong knowledge of chemistry and physics."  
Susan, Quality Engineer

"Demonstrates creativity in problem solving . . . listens to what we have to say."  
Manager, Chemistry R & D

"Worked . . . to better understand and optimize the chemical systems used."  
J. B., Chief Technologist

## Qualifications

Joseph E. Sabol has clients in the metal processing, semiconductor, magnetic materials, fire suppression and safety equipment, automotive parts, pulp and paper, biodiesel conversion, agriculture, and food processing industries.

Sabol has expertise in chemical synthesis and analysis, chromatography, surface science and corrosion, electrochemistry, thermodynamics, microscopy, properties of materials, mass spectrometry, atomic and molecular spectroscopy, clean room protocol, chemical hygiene and safety, laser technology, x-ray diffraction, radiation monitoring, statistical data analysis, and regulatory compliance.

Sabol has a Ph.D. in chemistry, 25 years of experience in chemistry, chemical engineering, physics and materials science research, is an author of refereed publications, and is a speaker at technical conferences.