Kathy A. Graff   *(724) 763-7566*

410 5th Avenue
Ford City PA 16226
www: http://kgraff.net/

Education:

1970-1972	**University of Illinois**	Urbana, IL

MS, Analytical Chemistry, 1972

1966-1970	**Indiana University of Pennsylvania**	Indiana, PA

BS, Chemistry, 1970
- Outstanding chemistry senior award
- Chi Beta Phi honorary science fraternity member
- American Chemical Society Student Affiliate
- National Merit Commended Scholar

Experience:

1990-present   **Self-employed**

Computer Consultant, Programmer, DBA, and Technical Writer
- Design web pages including forms, custom Perl CGI programs, and web-accessible MySQL databases.
- Create graphics and prepare photographs for web and paper publication.
- Write Perl programs for UNIX, Linux, Macintosh OS X systems.
- Design and modify database systems to meet client needs.
- Prepare business forms, brochures, newsletters.
- Prepare manuscripts for electronic submission to publishers.

9/2001-8/2002	**University of Wisconsin–Milwaukee**	Milwaukee, WI

WATER Institute

Associate Research Specialist
- Designed relational databases for limnology, water quality, and meteorology data archives.
- Administered MySQL databases on Red Hat Linux server.
- Designed web pages with educational content and forms for searching databases.
- Designed quality assurance protocols for data submissions
- Provided computer support.
- Shared responsibility for Linux system administration, backups.
- Programming: Perl (DBI and CGI modules), SQL, HTML.

1/1998-8/2001	**Virtual Care Provider, Inc.**	Milwaukee, WI

A subsidiary of Extendicare Health Services, Inc.

Data Transfer Specialist

- Maintained an OS/2-Novell server system used to transfer Accounts Receivable and Payroll data between IBM AS/400, RS/6000, and Netfinity computers at corporate headquarters in Milwaukee and more than 200 facilities running SCO UNIX and AIX servers. Sterling Commerce RemoteWare software was used for scheduling.
- Worked closely with UNIX administrator to write new REXX scripts for OS/2 system to convert from dial-in to FTP transfers with adoption of frame relay system.
- Wrote new REXX scripts for OS/2 server to manage payroll uploads during major project to redesign payroll system.
- Wrote Perl scripts and set up scheduler to replace legacy OS/2-Novell servers with an NT server to comply with corporate supported platform standards.
- Prepared documentation for new NT production system on corporate intranet.
- Worked with developers to modify systems for corporate proprietary software changes.

10/1995-12/1997	**UW System Multicultural Information Center**	Milwaukee, WI

IS Project Assistant. (20 hours per week)

- Designed a relational database system for tracking students who participated in Precollege programs at UW System campuses (over 32,000 students) using FileMaker Pro and Paradox. This system was used to provide recruitment lists for admissions directors at UW System campuses in June 1997 and 1998 as well as direct mailings to targeted students.
- Established procedures for translating a variety of file formats for merging data from UW System campuses into student master database.
- Used Adobe PageMaker to produce brochures and forms.
- Provided general computer support.

1/1995-11/1997	**Shorewood Schools Adult Recreation Program**	Shorewood, WI

Instructor (part time)

- Taught adult students how to use Macintosh computers with emphasis on using Claris-Works (word processing, databases, spreadsheets and charts, drawing and painting, and communications software).

10/1992-12/1997	**University of Wisconsin–Milwaukee**	Milwaukee, WI

Information & Media Technologies Department (formerly the Computing Services Division)

Computer Consultant and Technician (part time)

- Provided phone support and walk-in support at help desk for Macintosh and PC microcomputers and UNIX accounts on DEC Alpha computers.
- Produced documentation using PageMaker (including PDF and HTML versions).
- Ran training sessions for student employees and provided on the job training.
- Helped develop a database system for tracking student worker hours.
- Performed "house calls" to trouble shoot problems with microcomputers and connecting them to the campus network for university staff.
- Helped with short courses on using email and the Internet (internal training program for UWM staff).
- Provided routine maintenance on student computer lab microcomputers.

3/1993-10/1995	**University of Wisconsin Extension**	Milwaukee, WI

Center for Community Computing, Omnifest Community Network

Information Specialist (MIS-2) (part time)

- Provided systems administration support for DEC Alpha work station running OSF/1 and CIX bulletin board software.
- Provided phone support for people having problems connecting to service.
- Interviewed and trained volunteers.
- Wrote and published documentation.
- Analyzed data and prepared charts for reporting system usage.
- Designed forms and brochures using PageMaker.
- Continued working as a volunteer until the organization closed in March 1998.

11/1988-10/1992	**University of Wisconsin–Milwaukee**	Milwaukee, WI

Geosciences Department

Technician III

- Maintained and repaired laboratory equipment.
- Wrote GWBASIC programs for a microcomputer which controlled a Philips PW1470 X-ray Fluorescence Spectrometer. I continue to provide support for this equipment.
- Performed analyses of water, soils, and minerals for research projects.
- Developed and documented methods and quality assurance procedures.
- Instructed students in lab methods and use of computers.
- Did lab preps in support of instructional program.
- Wrote the laboratory manual used for the Chemical Hydrogeology course.
- Designed FIA systems for nitrate/nitrite, silica and, ammonia analysis.
- Wrote QuickBASIC programs to provide a user interface for taking measurements and samples using a Remotely Operated Vehicle (ROV). Project included real-time graphic display of data and logging measurements to disk as well as controlling samplers.

| 1/1990-12/1991 | **Milwaukee Institute of Art & Design** | Milwaukee, WI |

Art History and Liberal Arts Department

Instructor (part time)

- Taught elective physical science lecture courses for visual arts students in BS Fine Arts program.
- Instituted publication of a class magazine and participating in poster sessions instead of requiring term papers.

| 6/1986-10/1988 | **Medical College of Wisconsin** | Milwaukee, WI |

Ophthalmology Department

Research Technician

- Maintained and managed laboratory equipment and supplies.
- Performed analyses including nucleotide pools, pharmaceuticals, metabolites, radiolabeled compounds by HPLC and enzyme assays.
- Cultured and maintained stocks of several mammalian cell lines (human and rabbit corneal stroma, Vero, 3T3, HeLa, Chang) and viruses.
- Documented lab procedures and results.

| 11/1985-4/1986 | **CERAC, Inc.** | Milwaukee, WI |

Senior Analytical Chemist

- Developed new methods and adapted methods for new or unusual materials.
- Performed analyses of inorganic fine chemicals and ceramics for Quality Control program.
- Documented lab procedures and results.

| 1/1984-9/1985 | **Lachat Chemicals, Instrument Division** | Mequon, WI |

Applications Chemist

- Developed and adapted methods for QuickChem™ Flow Injection Analysis systems.
- Investigated feasibility of an Ion Chromatography line.
- Trained customers and installed systems in their facilities.
- Provided phone support for customers and sales.

| 9/1981-5/1983 | **Stockton State College** | Pomona, NJ |

Natural and Mathematical Sciences Department

Instructor in Environmental Chemistry

- Taught air and water pollution control lecture courses for third-year environmental studies majors.
- Taught water quality analysis lab.
- Taught introductory courses in science and math.

6/1979-5/1981	**University of Utah**	Salt Lake City, UT

Department of Chemistry (J. Calvin Giddings research group)

Research Technician III

- Performed basic research in Field-Flow Fractionation (FFF) for characterization of colloidal and fine particle systems.
- Verified results by microscopy and wet methods.
- Wrote and edited papers, research proposals and progress reports.

1973-1976	**US Army Construction Engineering Research Lab**	Champaign, IL

Environmental Engineering Group

Chemist GS-9

- Ran lab for water quality, wastewater, air pollution, and materials testing.
- Collected samples in the field.
- Set up field laboratories.
- Calibrated and maintained lab instruments including HPLC, AutoAnalyzers, Gas Chromatograph (FID and EC detectors), TOC, and visible and IR spectrophotometers.
- Provided data and technical assistance in design of wastewater treatment systems.

1970-1973	**University of Illinois**	Urbana, IL

Analytical Chemistry Department, School of Chemical Sciences

Civil Engineering Department

Teaching and Research Assistant

- Taught Quantitative Analysis lab and recitation sections.
- Graded exams and lab reports.
- Developed new lab experiments.
- Participated in basic research on the chemistry of Portland Cement.

1967-1969	**Indiana University of Pennsylvania**	Indiana, PA

Chemistry Department

Work study lab assistant

- Did lab preps.
- Supervised undergraduate labs and tutored students for general chemistry, organic chemistry, nursing chemistry undergraduate level classes and masters level classes for science teachers.
- Developed new exercises for labs.

Additional Information:

Retired member of the American Chemical Society.

Secretary of the Macintosh Users Group of Milwaukee 1992 to 1995.

Newsletter Editor for the Macintosh Users Group of Milwaukee 1993 to 1995.

Transcripts, references, and reprints of papers are available on request.

Publications:

Inhibition of Leukemic HL60 Cell Growth by Transferrin-Gallium: Effects on Ribonucleotide Reductase and Demonstration of Drug Synergy with Hydroxyurea, Christopher R. Chitambar, William G. Matthaeus, William E. Anthroline, Kathy Graff, and William J. O'Brien, *Blood, Vol. 72*, No 6 (December), 1988: pp 1930-1936.

Characterization of Fine Coal Particles by Steric Field-Flow Fractionation, Kathy A. Graff, Karin D. Caldwell, Marcus N. Myers, and J. Calvin Giddings, *Fuel, 63*, pp 621-6 (1984).

Sedimentation Field-Flow Fractionation of Colloidal Particles in River Water, George Karaiskakis, Kathy A. Graff, Karin D. Caldwell, and J. Calvin Giddings, *International Journal of Environmental Analytical Chemistry, 12,* pp 1-15 (1982).

Field-Flow Fractionation; Promising Approach for the Separation and Characterization of Macromolecules, J. Calvin Giddings, Kathy A. Graff, Karin D. Caldwell, and Marcus N. Myers, *Advances in Chemistry, Polymer Characterization.*

Application of Field-Flow Fractionation to Radioactive Waste Disposal, Marcus N. Myers, Kathy A. Graff, and J. Calvin Giddings, *Nuclear Technology, 51 (2),* pp 147-155 (1980).

Migration of Explosives and Chlorinated Pesticides in a Simulated Sanitary Landfill, Kathy A. Conley and Walter J. Mikucki, CERL Technical Report N-8, September 1976 ILIR.

Vehicle Washing Operations and Wastewater Discharges, Ft. Drum, NY — Findings and Recommendations, Robert J. Fileccia, L. J. Benson, Kathy A. Conley, and Joseph E. Matherly, CERL Technical Report E-80, June 1976.

Air Pollution Engineering Source Evaluation of Ammonia Oxidation Plant Number 10, Holston Army Ammunition Plant, Kingsport, Tennessee, Roy F. Carter and Kathy A. Conley, CERL Technical Report E-23, January 1974.

Note: I published and worked under the names Kathy A. Conley and Kathy Graff Conley from 1971 to 1976.