

# Research Scientist

Gina Rameika

Fermi National Accelerator  
Laboratory

- Born in Red Bank, New Jersey
- Interests in High School
  - Debate/forensics team
  - Politics
    - Thought I might go to law school
  - Senior year physics
    - First time I considered a major in science
- Attended Rutgers University
  - Majored in Physics, B.S. - 1976
  - Still considered “careers” in law, medicine, teaching
    - In other words I didn’t have a clue of what I was going to do with my life

- Rather than look for a job I went to Graduate School in Physics (at Rutgers)
- Spring break 3rd year
  - Professor Tom Devlin invited me to visit Fermilab
    - Strung cables, installed helium bags, met Professors, post-docs and graduate students,
      - Including several young women
  - That summer I moved to Fermilab, and have been working here since...

- Research Group
  - Rutgers, Wisconsin, Michigan and Minnesota (Devlin, Pondrom, Overseth, Heller)
    - ~20 person group
- Thesis -
  - Magnetic moment of the Cascade Minus Hyperon (one of a series of measurements)
  - Skills
    - Fortran programming
    - Data Analysis
    - “project management”
      - Graduate students assumed responsibility for the experiment that generated their thesis data

- First job : Research Associate - Fermilab (1982-1985)
  - E705 - direct photon and  $\chi$  production
  - Responsible for design and overseeing construction of front end electronics
  - Detector test beam data taking and analysis
  - Experiment installation, commissioning, data taking

- Associate Scientist (1986-1991)
  - Along with a graduate student colleague proposed and executed a new series of hyperon experiments to “complete” the program we began as students ( $\Omega^-$ 's)
    - More experience in experiment management
  - Asked to serve as an Associate Department Head for the Experimental Areas Operation's Department
    - Good introduction to Laboratory management
    - Programming in C

- Scientist I
  - Co-leader of a “final” hyperon experiment :  
“Precision measurement of the  $\Omega$ -minus hyperon magnetic moment”
  - Asked to serve as Deputy Head of the Research Division
    - Good introduction to the higher level of laboratory management
    - Authored policy and procedure documents for Laboratory compliance with many new DOE requirements in the area of ES&H an management

- **Scientist II**
  - Continued as Deputy Head until interest in the neutrino program dominated my activities
  - Served as project manager for the NuMI Project as well as the smaller nu\_τ experiment (DONUT)
  - Spent 2 years doing data analysis (no management responsibility)
  - Served as MINOS experiment project manager
  - Formed and lead Neutrino Department
  - Actively participate in experiments