

# STEPHEN T. KOWEL

## SUMMARY CURRICULUM VITAE

January 2011

---

### **Personal and Professional Data**

Current Position: Professor Emeritus, School of Electronic and Computing Systems, and  
Dean Emeritus of Engineering  
University of Cincinnati  
Cincinnati, OH 45221-0030

URL: <http://www.eng.uc.edu/~skowel/>

### **Education and Degrees**

09/65 - 12/68 University of Pennsylvania, PhD ['68]  
Ford Foundation Fellow in Electrical Engineering ['65 - '67]  
Ford Foundation Forgivable Loan Recipient for Dissertation Research  
['68]  
09/64 - 08/65 Polytechnic University, MSEE ['66]  
NSF Traineeship in Electrical Engineering  
09/60 - 05/64 University of Pennsylvania, BSEE ['64].

### **Scientific and Professional Society Activities and Honors**

- Fellow Optical Society of America (OSA) ['92]
- Fellow Institute of Electrical and Electronics Engineers (IEEE) ['97]
- Centennial Medal IEEE ['84]
- Reviewer NSF, OSA journals, IEEE journals, Nature
- Chair Gordon Research Conference on Organic Thin Films, Ventura, CA ['92]
- Vice Chair Gordon Research Conference on Organic Thin Films, Ventura, CA ['90]
- Conference Chair SPIE, Very Large Optical Memories, San Diego, July ['92, '93, '94]
- Member NRC Review Panel for Ford Foundation Minority Predoctoral  
Fellowships ['96, '97, '98]
- Member Editorial Advisory Board, Nonlinear Optics, Gordon and Breach Science  
Publishers ['91 - '05]

## **Professional Assignments**

### **University of Cincinnati:**

- Professor of Electrical Engineering [5/99- 12/10]
- Dean of Engineering, and Geier Professor of Engineering Education [5/99 - 8/04]

### **The University of Alabama in Huntsville:**

- Director, Laboratory for Integrated Computing and Optoelectronic Systems [6/98 - 4/99]
  - Professor, Electrical and Computer Engineering (ECE) ['90 - '99]
  - Interim Dean, College of Engineering [7/97 - 5/98]
  - Chair, Department of Electrical and Computer Engineering ['90 - '97]
  - Director (Founding), Doctoral Program in Optical Science and Engineering ['92 - '97]
  - Professor, Doctoral Program in Optical Science and Engineering ['92 - '99] Professor, Alabama Inter-Campus Doctoral Program in Materials Science ['90 - '99]
- Member of the Engineering Staff, Center for Applied Optics ['95 - '99].

### **University of California, Davis:**

- Professor, Department of Electrical Engineering and Computer Science (EECS) ['84 - '90]
- Vice Chair, Department of Electrical Engineering and Computer Science ['86 - '90]
- Director, Organized Research Program on Polymeric Ultrathin Film Systems ['88 - '90]
- Faculty Assistant to the Chancellor ['88 - '89].

### **Syracuse University:**

- Professor, Department of Electrical and Computer Engineering ['79 - '84]
- Associate Professor, Department of Electrical and Computer Engineering ['74 - '79]
- Assistant Professor, Department of Electrical and Computer Engineering ['69 - '74]
- NSF Summer Research Participant – research on parametric amplification ['63].

### **Cornell University:**

- Visiting Professor, National Nanofabrication Facility, and School of Electrical Engineering – research on microelectronic materials, fabrication, and devices ['82 - '83].

### **University of Pennsylvania:**

- Associate in Electrical Engineering, Moore School of Electrical Engineering – dissertation and postdoctoral research, undergraduate teaching ['68 - '69]
- Teaching/Research Fellow, Moore School of Electrical Engineering – research on avionics antenna project, undergraduate teaching ['67-'68]
- Supervisor, Physics Department Computer Center [Summer '64]
- NSF Summer Research Participant – research on numerical analysis ['62].

### **General Electric Company:**

- Engineer, Aerospace Physics Laboratory, Re-Entry Systems Department – research on neutron bombardment effects on semiconductors [Summer '66].

**Publications:**

More than 100 papers, including 50 fully refereed publications, have appeared in print.

Twelve United States Patents have issued. Eight of these patents have been licensed.

**Supervision of Research, Dissertations and Theses:**

Ten postdoctoral associates; twelve PhD dissertation advisees.

**Grants, Contracts, Gifts [Principal, or Co-Principal, Investigator]:**

USAF Rome Laboratory, NSF, US Army Engineer Topographic Laboratory, Inficon, Inc., US Army Night Vision and Electro-Optics Laboratory, NASA Langley Research Center, Air Force Weapons Laboratory, Lawrence Livermore National Laboratory, Call/Recall, Inc., University of California MICRO Program, IBM Almaden Research Center, US Army Missile Command, Advanced Research Projects Agency.

**Consulting / Corporate Activities:**

- ReviewReady, Inc., Cincinnati, Ohio; Principal ['06 - ]. Advanced technical editing services.
- TechSolve, Cincinnati, OH; Member of Board of Directors ['99 - '04]. TechSolve is a nonprofit corporation working to enhance the competitiveness of manufacturing and technology businesses.  
Edison Materials Technology Center (EMTEC), Dayton, OH; Member, Board of Governors ['99 - '04]
- Call/Recall, Inc., San Diego, CA; co-founder; consultant ['87 - '88]; Officer and Board Member ['88 - '94]. The corporation, licensee of U. S. Patent on the ADAPTIVE LIQUID CRYSTAL LENS, continued development of two-photon, three-dimensional optical memory technology.
- Deft Laboratories, Inc., East Syracuse, NY; Chairman of the Board and Vice-President ['78 - '84]. Incorporated in '76 to develop and manufacture sensors and electronic image processing instruments based on DEFT technology; licensee of U. S. Patents on Direct Electronic Fourier Transforms Of Optical Images. In '80 the Company introduced an additional product line, an emergency locator transmitter [ELT] for use in general aviation. Corporation closed, '84.  
General Electric Company, Syracuse, NY; occasional consultant on acousto-optics ['76 - '84].