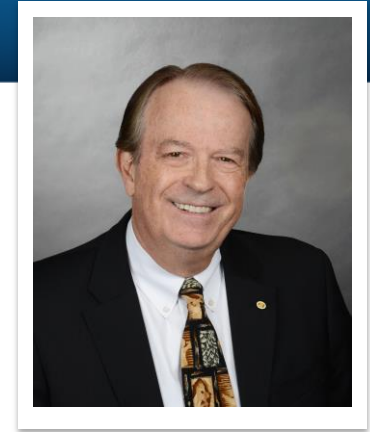




# Professional Biography

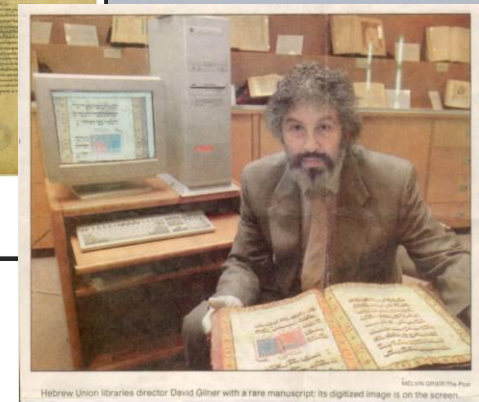
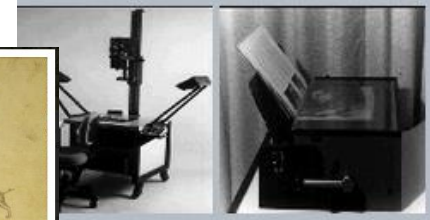


- **Employed at IBM's T.J. Watson Research Center 1978-2013**
  - **Program Director for IBM's Blue Gene Watson supercomputer center**
  - **Department Manager, Visual Technologies**
    - *data visualization, 3D graphics, image processing*
  - **Manager, Image Library Applications**
    - *digital libraries, with high-quality imaging and digital rights management, often for web sites of cultural institutions; the National Gallery of Art (USA), the Vatican Library, the State Hermitage Museum, the Egyptian Museum in Cairo*
  - **Manager, Signal Processing Applications**
    - *signal processing theory, applications, hardware*
- **PhD in EECS from Princeton**
- **Employed at CTEC - an operating telephone company**
- **BSEE from Rutgers**
  
- **IEEE Fellow**
- **over 60 papers**
- **over 25 patents**

# Professional Biography

## *the Vatican Library project*

- **Project began in 1993**
- **Goal:** to investigate whether digital images, distributed through the Internet, could serve as source materials for scholarly research
- **Team:** includes the Vatican Library, the Pontifical Catholic University of Rio, IBM, and Case Western Reserve
- **A scholarly user community**
- **Accomplishments**
  - first significant collection on the web; 20,000 high-res images online in 1995; 50,000 high-res images eventually online



## *the State Hermitage Museum project*

- web site and multimedia education center
- “best of the web” award

## *the Eternal Egypt project*

- with Egyptian Museum in Cairo, CULTNAT, others
- web site with 3D objects

# Selected IEEE Activities

- › **VP of Technical Activities 2012 / IEEE BoD**
- › **Division IX Director 2008-09 / member IEEE TAB / IEEE BoD**
- › **Pres. of IEEE Signal Processing Soc. 2004-05 / member IEEE TAB**
  
- › **Finance**
  - Finance Chair ICIP95, VP Finance for SPS - a financially-sound society
  - IEEE Audit Committee, IEEE Insurance Committee, IEEE Investment Committee, IEEE Marketing and Sales, IEEE Employee Benefits and Compensation (Chair)
- › **Publications**
  - helped create IEEE Trans. on Info. Forensics and Security; helped add language processing to scope of – IEEE Trans. Audio, Speech and Language Processing
  - Charter EIC, IEEE Technical Community Spotlight – a new every-member publication
- › **Conferences**
  - Finance Chair of ICIP95, Tech Co-chair of 1984 DSP workshop, SPS Conf. Board
- › **Membership**
  - Membership Development Committee, Alternate Membership Models Ad Hoc(s), Membership Models Ad Hoc, MGA SDEA
- › **Strategy**
  - as SPS's P-E, developed interlocks between SPS' LRP and operations
  - As TAB VP, initiated TAB Long Range Planning ... new Mission and Vision statements resulted with focus on technology-centric worldwide communities
  - TAB Strategic Planning (Chair), IEEE NIC; TAB Awareness and Branding Ad Hoc (Chair)

# My focus if elected

## *Strengthening IEEE technical communities*

*By **technical communities**, I mean teams of colleagues working together to advance a common interest, which might be a technology, regional meetings, a publication, a conference, a standard, an educational activity, a humanitarian project – or one of many others.*

*All IEEE OUs rely on the work of their technical communities to fulfill their mission and the IEEE mission*

*Participating in IEEE technical communities delivers great value to the community members, including personal and professional growth.*

*Some audiences are of special interest*

- Industrial employees/practitioners*
- Young professionals*
- Author/Researchers*
- Tech Professionals in emerging economies*

# My focus if elected

## ***Strengthening IEEE communities – some envisioned efforts***

### *1. Expand emerging technology efforts*

- Increase their availability, especially beyond Technical Activities*
- To better serve industrial employees and early-career members*

### *2. Develop a strong set of Professional Productivity and Collaboration Tools*

- Collaboration tools for better community organization & management*
- Nurture participant interactions which provide so much value*
- More nimble operation to expand community participation*
  - Communities may be pre-populated or populated by self sign-up*
  - Communities may be member-only or open to nonmembers*
- Expanded IEEE use of Social Media – which also better serves early career members*
- Better authoring/researcher support tools - to bind our author community to us*

# My focus if elected

## ***Strengthening IEEE communities – some envisioned efforts***

### *3. Enhance our magazines and newsletters*

- More focus on technical content of industrial interest*
- Greater interactivity*
- Supplemental materials*

### *4. Expand our humanitarian efforts*

### *5. Develop crisper value propositions for important audiences*

# Some Recent Contributions

## *Strengthening IEEE communities - activities strengthening TA technical communities*

- ▶ *As TAB VP – increased TAB support of Future Directions activities*
  - *To better support industrial employees and early-career members*
- ▶ *As VP TA – initiated TAB Long Range Planning effort*
  - ***New TA mission statement - Inspire, Foster and Empower Technology-Centric Worldwide Communities*** - *shifted emphasis from products and services to TAB communities*
- ▶ *While VP TA – enabled community self-registration for FDC activities*
- ▶ *As VP TA – initiated Membership Models Ad Hoc; this resulted in:*
  - ***Society membership experiment***
  - ***IEEE Technical Community Spotlight*** - *a free every-member publication which provides all IEEE members with magazine articles on topical technologies and information about participating in Future Directions communities*

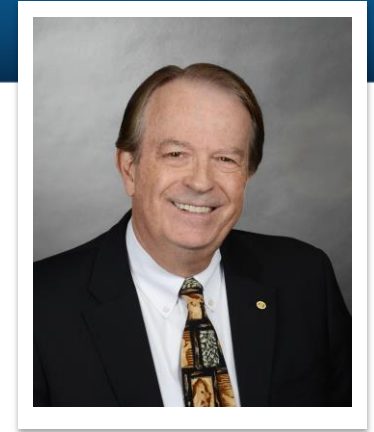


# Some Recent Contributions

## *Strengthening IEEE communities - activities strengthening TA technical communities*

- *As TAB VP – created **TAB Hall of Honor** – a new recognition*
- *Later ... at VP's request – created and chaired Ad Hoc on TAB Awareness and Branding*
  - ***TA Value Proposition** – helping members remain technically current; the many (personal and professional) benefits of community participation*
  - ***New opportunities for more effective magazines, newsletters***
  - ***New Opportunities for use of China Social Media***
- *While VP – TAB adopts **three-pronged Open Access strategy***

# In summary



*never underestimate the power of communities*

*[www.FredMintzer.net](http://www.FredMintzer.net)*