

**ACADEMY OF ELECTRICAL ENGINEERING  
Minutes of Morning Meeting**

**22 April 1988**

President Jerry Swearingen called the meeting to order as a Joint Meeting of the Board of Directors and the general membership. The following members were present:

Charles Boulson	J. Derald Morgan	Ralph E. Wolfram
William A. Wundrack	Edward F. Tuck	Jerry Swearingen
Edwin W. Logan	Jim Longshore	Kent Martin
Gene C. Clodfelter	Vernon R. Lawson	W. Jas. Carr, Jr.
Jack D. Stewart	James W. Stephens	Wayne Littleton
Larry Rushing	Dick Gillette	Kent Swearingen
Al Weinrich	William E. Hord	William A. Ellis
Phil A. Browning	Howard H. Fillmer	Wayne J. Bennetsen
William Rutledge	Dr. Walt Gajda	

**OLD BUSINESS**

Following a brief review for the new members of the Academy purpose and goals, the minutes of the Annual Meeting and the minutes of the Board of Director Meeting for last year were corrected and adopted as corrected. Copies of the corrected paragraphs were furnished to Ms. Betty Cleveland for record.

**NEW BUSINESS**

Two new Directors were elected for three-year terms, bringing the Board to the following membership:

Jim Longshore	1991	William Busch	1989
Derald Morgan	1991	Carl Finley	1989
Al Weinrich	1990		
Jerry Swearingen	1990		

Secretary/Treasurer Charles Boulson gave the Treasurer's Report, and offered a new Budget for 1989/90. The Budget was approved as proposed.

The proposed revisions to the Bylaws were unanimously approved as mailed to the membership in advance, with the correction of the word "eligibility" in Par. 11.B.

New Officers were elected for one-year terms in 1989/90 as follows:

President	Jim Longshore
V. President	Al Weinrich
Sec/Treas.	Howard Fillmer

Jim Stevens, Chairman of the Membership Committee, offered the following new members for election in the class of 1989/90:

William A. Ellis	William E. Hord	Wayne Littleton
Larry L. Rushing	Jack D. Stewart	Kent W. Swearingen

These new members were unanimously accepted.

Jim Longshore, Chairman of the Liaison Committee gave a report of his committee which had been organized for the purpose of meeting with Dr. Gajda, Chairman of the E. E. Department-UMR to determine a worthwhile project for the Academy in 1989/90. At Dr. Gajda's request, the Academy was asked to participate in the preparation of an evaluation of the E. E. Dept. graduates now working in the industries represented by the Academy membership, as well as other professional areas. Dr. Gajda made a presentation of his goals for the department and elaborated on the proposed project as previously outlined in a letter to the members of the Academy. The project was discussed by the members in attendance who voted to prepare the evaluation as requested, and present it to the E. E. Department chairman for inclusion in an overall appraisal of the university system for the Governor of Missouri. Ideas were presented for sources of data for the evaluation, and details of the implementation of the plan together with a time schedule will be worked out by the new officers in the coming year.

Professor Nau, E. E. Department, gave a presentation on the methods he uses to select recipients for the scholarships awarded by the Academy. The members gave Prof. Nau a vote of thanks for his services in this area. To assist in the selection process for future recipients, a scholarship guideline committee was formed to serve in 1989/90 as follows:

William E. Hord  
Richard Gillette

Al Weinrich  
Larry Rushing

Recipients of the 1988/89 scholarships were as follows:

Diana Lee Kolbet	\$ 500	Daniel F. Burtel	\$500
Shelli K. Starrett	500	Ann E. Kruse	500
Kevin Marrs	1000		

Professor Nau proposed that four \$1000 scholarships be made available to students transferring to UMR from the Junior Colleges in Missouri. Action on this proposal will be considered by the Scholarship Guideline Committee.

Other matters brought up for general discussion, and appropriate action in the coming year were:

Consideration of a Bylaw change which would make the term of office for the President two years instead of the present one year.

Consideration of a Bylaw change which would place members on an inactive status following ten years of active membership - thereby allowing the induction of perpetual new membership while restricting active membership to 100 members.

Consideration of the creation of an Honorary Member category, with Ms. Betty Cleveland being the first candidate in recognition of her continued and faithful support of the Academy as its Staff Manager.

Conduct discussions with E. E. Department Chairman Gajda as to his recommended utilization of surplus Academy funds each year-end. Approximately \$3,000 has been budgeted for "Special E. E. Dept. Projects" in 1989/90.

There being no further business, the joint meeting of the directors and members was adjourned.

Approved Charles E. Boulton  
Secretary/Treasurer

**ADDENDA FOR CORRECTIONS TO MINUTES OF ANNUAL MEETING 10 APRIL 1987:**

- I. Under ELECTION OF DIRECTORS
  - A. In the first paragraph, first sentence, change **Nominating** to **Nominations**
  - B. In second sentence change **acclimation** to **acclamation**
- II. Under OLD BUSINESS - Membership Committee
  - A. Second sentence should read **"62 members plus 4 inductees"**
  - B. Third sentence should read **"25 members plus 4 inductees present at the meeting"**
  - C. Fifth sentence should read **"The limit of the Academy**
  - D. Sixth sentence - change **institute** to **Academy**
  - E. Last sentence - change to read **"It was suggested that members of the Academy need to know the names of those to whom invitations are being sent, so that we can then encourage them to accept."**

**CORRECTIONS TO MINUTES OF BOARD OF DIRECTORS' MEETING 10 APRIL 1987:**

ELECTION OF OFFICERS - change to read:

Before voting began, a motion was made to elect officers from the Academy as a whole instead of restricting nominations to Board Members only. This change would require rewriting part of the Bylaws. A motion was made, seconded, and passed to change the Academy Bylaws so the Board of Directors and the Officers may be elected from the whole membership. The Nominations Committee would nominate the Directors and nominations for Officers would be taken from the floor at the annual meeting. Director nominees must have been previously contacted by the Nominations Committee concerning their willingness to serve. A vote on this motion to amend the Bylaws will be taken at the next annual meeting preceded by a written notification to the Membership that proposed changes to the Bylaws would be on the agenda.

Signed: J. Swearingen  
J. Swearingen, President, 1987/88

**ACADEMY OF ELECTRICAL ENGINEERING**  
**Minutes of Afternoon Meeting**  
**April 22, 1988**

Dr. W. J. Gajda, Jr., Chairman of the Department of Electrical Engineering addressed the group. Following is outline of his comments:

**GOALS FOR DEPARTMENT** - QUALITY 1ST PRIORITY

1. To insure the nationally recognized quality of UMR's EE undergraduate program
  - Renewal
  - Interdisciplinary Design
    - Seniors work on teams (EE, ME, Eng. Mgmt.), actually bid cost, execute projects, pay for computer time, elect leader for each team, etc.
  - Innovation
    - Leader in quality but don't innovate enough
  - Lab Improvement
  - Textbook Publication
  
2. To strengthen graduate program
  - Renew Faculty
  - Increase Quality
  - Increase Value to Constituents
  - Increase funding for research by 50%
  - Reward Teaching and Research Equally

**1987-88 PROGRESS**

- Successful Fund Raising with Fall Mailathon and Spring Phonathon reflecting more than a 50% increase from the best previous year (total gifts will exceed \$100,000 if all pledges are received)
- Alumni Young Faculty Award Established
  - an important recruiting tool for the department
- Gary Leininger appointed as Professor of Electrical Engineering & Director of Intelligent Industrial Systems Program (this program has received 500K\$ in Missouri support)
- Finley Endowed Faculty Excellence Award Established
- Shirley Cheng joined GEC as Assistant Professor of Electrical Engr..
- 87/88 Teaching Awards to:
  - Randy H. Moss
  - William H. Tranter
- W. J. Gajda, Jr. named as Rutledge-Emerson Distinguished Professor
- 1987/88 Excellence Awards to:
  - Gordon Carlson
  - Randy Moss (his 2nd)
  - Vittal Rao
- Average teaching loads have dropped significantly
- External research support has risen 40% from its 1986/87 minimum
- Initial parts of SUN workstation network ordered
- Ed Hart was promoted from Senior Secretary to Administrative Assistant

- Three assistant chairman designated:  
 David Cunningham - Undergraduate Studies  
 Earl F. Richards - Graduate Studies  
 Jack F. Morris - Lab Development
- Faculty morale is good

**ASSESSMENT**

The governor has called for assessment of educational programs.

Varied Responses

- Entry ACT/SAT
- Rising Jr. ACT/SAT - doing
- Dept. Senior Exam - doing
- EIT - looking
- Value added

Success of grads  
 Opinions of grads

Opinions of industry, government, peers.

**PRESENT STATUS OF DEPARTMENT**

86-87 EIT Exam			
	UMR EE's	Nat EE's	Δ
Basic EE	82.8	71.7	+11.1
Circuits	83.	74.2	8.8
Electronics/Machinery	80.	65.1	14.9

U.S. News Deans Survey - 20th out of 230.

82-83 National Academy of Sciences Survey - 38th

CAVEAT - The program is and will continue to be in the hands of the faculty.

Dr. Gajda proposed that assessment be a task for the Academy. He asked if the Academy would be willing to assist with assessment.

Jerry Swearingen asked if there was a person on staff acting as an anchor. Dr. Gajda responded that there is an assessment committee which he chairs, and that Dr. Frank Kern is on the campus assessment committee. Dr. Gajda, through the liaison committee, would be a good focal point. Dr. Gajda said he would be happy to take care of this.

After Dr. Gajda left the meeting, the membership conducted an open discussion on the assessment matter. Comments were made by those present such as they: are particularly interested in reaction from new members; need an activity and some involvement and they like the idea but it is scary now and they are not sure where to start; have been asking what can we do and don't see how can say no but don't know how to go about it but should do everything possible; like to have the opportunity to help and everyone cares but they must prioritize time. Intrigued by comments. The Academy carries political clout. The Academy can best help because it is a unique membership of graduates from across the years. Some had mixed emotions, feels sorry for Dr. Gajda to have to put together report card. Feels they should do whatever can to get involved. This is going to be timely. Goes back to finances and quality of education. Thinks involvement will help membership. One member felt that if the Academy didn't help they are in trouble, therefore he feels they should pick up and run with this opportunity. Thought they should keep Jim Longshore as head of the committee. Can't afford to pass this opportunity up. Another member stated that Dr. Gajda put to rest every concern that was discussed earlier in the day and this request for assistance could get everyone involved in the Academy. It should be realized that not all human resources will be willing to participate.

A show of hands to help Gajda and the Department in any way possible with the Assessment was unanimous.

#### Best Ideas For Collecting Data

- Survey active members to see what could contribute
- Ask members how many think their company could solicit company data (have each Academy member to ask their own Human Relations Dept.)
- Have Dr. Gajda solicit federal government
- Have Dr. Gajda analyze state PE exam scores & EIT scores
- Survey graduates/alumni self assessment vs. peers, i.e. your preparedness to those whom you work with/update attached/Academy do own graduating class and personalize request - this may also be a good time to look for new Academy members
- Survey all UMR
- Solicit to see school quality.
- Direct measure of value through historical data of statistics of salary from Dr. Gajda/University or obtain from company data base
- Headhunters/professionals
- Cross correlation of alumni files with human resources organizations
- Endicot Report
- University association of top management - ask for with one of above
- What employers and alumni think - ask registrar how many people contact the University to interview students
- What to ask for - how many years to attribute, how long with company, how long education lasted you - 3-5 years -- not proper to put time limit on it
- Obtain from Gajda data showing how many graduates employed and by what company
- Obtain from Gajda an appropriate questionnaire as well as all the other data he has available on this matter
- Find out how many grads stay here in Missouri and how many leave to see what they bring back to the state

- Contact 3 big companies and 3 small predominate companies in MO  
IBM, GE, McDonnell Douglas (possible other companies Westinghouse, AT&T, Bell Labs, as well as those that are good to the Department)
- Categorize titles and areas

Committee appointed to examine the scholarship policy:

Bill Hord  
Al Weinrich  
Dick Gillette  
Wayne Littleton

### NOTES FROM THE BLACKBOARD

1. Survey Active Members
  - professionally prepared questions  
check with alumni office and dept. for advice on how to get questionnaire to get more than statistics
  - prepare common letter requesting response
  - identify Academy member for each graduating class (distribution - possibly mailing labels from alumni/postage - alumni & then trade info)
2. Solicit Employer Data
  - identify employers (alumni vs. employers) (Dept./Alumni Records)
  - identify academy members/alumni contact
  - prepare basic questions - GET WHAT YOU CAN!!!
  - analyze/compile data (who, how)
3. Prepare Report
  - review draft - academy/university - address to Governor
4. Issues
  - how to distribute

Idea length - 10 pages with 1 page executive summary on front - should sound industrial not scholarly

Schedule? End of year target - put in with cover letter

A motion was made to amend the by-laws to have a nominations committee to recommend officers and nominating committee. Seconded, all in favor, none opposed, motion carried.

A motion was made to amend the by-laws to have President for two year term. Seconded, all in favor, none opposed, motion carried.

Approved Charles E. Boulson  
C. E. Boulson, Secretary/Treas.