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
William A. Wundrack
Edwin W. Logan
Gene C. Clodfelter
Jack D. Stewart
Larry Rushing
Al Weinrich
Phil A. Browning
William Rutledge

J. Derald Morgan
Edward F. Tuck
Jim Longshore
Vernon R. Lawson
James W. Stephens
Dick Gillette
William E. Hord
Howard H. Fillmer
Dr. Walt Gajda

Ralph E. Wolfram
Jerry Swearingen
Kent Martin
W. Jas. Carr, Jr.
Wayne Littleton
Kent Swearingen
William A. Ellis
Wayne J. Bennetsen

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
Derald Morgan 1991
Al Weinrich 1990
Jerry Swearingen 1990

William Busch 1989
Carl Finley 1989

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
Larry L. Rushing

William E. Hord
Jack D. Stewart

Wayne Littleton
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
Shelli K. Starrett 500
Kevin Marrs 1000
Daniel F. Burtel $500
Ann E. Kruse 500

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

[Signature]
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 acclamation 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: [Signature]
J. Swearingen, President, 1987/88
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

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<tr>
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<th>86-87 EIT Exam</th>
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<td>Electronics/Machinery</td>
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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
- Endicott 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
C. E. Boulson, Secretary/Treas.