An item from the minutes of the ChE Division, ASEE, Annual Business Meeting on June 18, 1968, in Los Angeles, Calif. A sampling of similar vintage CEE documents is included at the end of this paper.

THE EVOLUTION OF CEE
Through interviews and old documents, we chart our course

Phil Wankat

The Chemical Engineering Education Division (ChED) of the American Society for Engineering Education (ASEE) has a history of publications that predate the establishment of CEE. The Division published a book, Applications of Chemical Engineering, edited by Harry McCormick, from the 1936 Wisconsin meeting of the Division. In 1940 there was a volume Proceedings of the Chemical Engineering Division edited by Joseph H. Koffolt. After World War II, the Division published the Transactions of the Chemical Engineering Division most years from 1946 to 1961 – Albert H. Cooper of the University of Connecticut was editor. Chemical Engineering Education (CEE) was started by ChED in 1962 with Cooper as editor. When Cooper moved to the University of Rochester, the editorial office moved with him. He published three issues in 1962, four issues in 1963, and two issues in 1964. Although dated, there were no volume or issue numbers listed. All of these issues are available in the CEE archives (<http://www.che.ufl.edu/cee/> or <http://ufdc.ufl.edu/AA00000383>).

Independently, in 1961 Prof. Robert Lemlich at the University of Cincinnati sent a letter to most ChE professors in the United States and Canada asking their opinion about starting a new journal. Lemlich started The Journal of Chemical Engineering Education in 1962 and published volume 1, numbers 1 to 3 that year, volume 2, numbers 1 and 2 in 1963, volume 3, number 1 in 1964, and suspended publication because of a lack of papers after volume 3, number 2 in December 1965. The journal was published by the University of Cincinnati and did not have support from a professional society. CEE will soon have all issues available in its archives.

In 1965 Cooper resigned to become dean at Tennessee Tech, and Shelby Miller at Rochester became the new editor. The Executive Committee of ChED, with ASEE approval, decided:

- CEE would continue as the quarterly journal of ChED, and would be published by ChED.
- A Publications Committee would serve as advisors.
- CEE would be supported by subscription fees and advertising income.
- A group of editors would be in charge of editorial and circulation efforts.
- Future issues would include volume and issue numbers and pages would run continuously each academic year. Thus, the 1965 issue is listed as Volume 1, #1.

Essentially, CEE continues to follow this same set of instructions 51 years later.

In 1966, CEE—edited by Shelby Miller—published Volume 1, numbers 2, 3, 4 (Jan, April, and June). In 1967 Ray Fahien, the chair of the ChE department at the University of Florida, became editor and promptly suspended publication for one year while he moved the editorial offices to Gainesville. In issue 1 (Winter) of Volume 2, Fahien thanked the former editorial staff at Rochester and especially Shelby Miller. He also thanked “the former publishers at the University of Cincinnati of The Journal of Chemical Engineering Education who have offered their support of our publication.”

14 Chemical Engineering Education
The bare facts of Ray Fahien’s life are available in his memoriam.[13] Within chemical engineering his passions were transport phenomena and CEE. After publication of his textbook, *Fundamentals of Transport Phenomena*, in 1983, Fahien increasingly focused his attention and energy on CEE. To obtain further insight on Ray Fahien and the operation of CEE we interviewed Rich Felder, Angie Perna, and Dendy Sloan.

* * *

Angie Perna focused the discussion on the late 1960s and 1970s. The initial budget model of relying on subscriptions and advertisements from schools and companies did not work well and finances were shaky. Members of the Publication Board (Pub Board) were asked to secure advertisements—some members were much better at this task. The board members worked to obtain both school and industrial ads. Older issues of CEE have a fair number of industrial ads. Eventually, taking up an idea (credited to Iowa State’s George Burnet) Ray decided to present to the chemical engineering department chairs the idea that school advertisements were a method for supporting CEE as a service to all ChE departments. Since he was a department chair, Ray had credibility with the other chairs. In addition, Ray believed deeply in the value of CEE and was not only very convincing but persistent. Ray was successful in convincing a majority of the department chairs to support CEE through advertisements. This financial model remains the CEE model today. Angie noted that the Pub Board members then reverted to their original role of advisors, which was much more comfortable for most members.

Dendy Sloan was the Pub Board chair for 17 years. Before becoming the chair at Florida, Ray had taught at Iowa State University for 10 years and he had spent a sabbatical at Wisconsin. While on sabbatical Ray was part of the group that studied transport phenomena. Back at Iowa State Ray had taught one of the first graduate courses in the country on transport phenomena. As a result of the contacts he made through these experiences, Ray was able to gather all the intellectual giants of the profession to write CEE articles and to serve on the Pub Board.

Dendy considered serving as the Pub Board Chair and working with Ray an honor and privilege. In the 1980s the Pub Board met twice a year—at AIChE and ASEE annual meetings. Because professors seemed to become busier and busier, attendance at the ASEE meeting decreased and that meeting of the Pub Board was eventually dropped. In 1989 Ray was going into a decline because of his Parkinson’s disease. Although he was no longer teaching or doing research, Ray desperately wanted to continue editing CEE. Tim Anderson and Dendy decided that Ray should stay as editor despite the difficulties caused by his disease. Dendy and Tim took turns rooming with Ray at AIChE meetings. In 1992 Phil Wankat volunteered to take over as Pub Board chair from Dendy. Dendy apparently really liked being Pub Board chair. The response to his offer was Dendy and Tim asked Phil to become unofficial assistant editor. Tim explained that the position was unofficial in the same way his position as editor was unofficial since it was the best way to continue to publish the journal.

When longtime Managing Editor Carole Yocum announced plans to retire in 2000, Tim insisted that Dendy remain as the Pub Board chair until there was a transition of managing editors. When Dendy eventually stepped down, he was replaced by John O’Connell who Dendy thought “did a good job.”

Rich Felder reminisced about his 27 years writing 100 “Random Thoughts” columns for CEE. Rich first published a very short piece in CEE in Fall 1970, and he was very surprised that Ray accepted it. By 1988 when he volunteered to write a column, Rich had more confidence. Since he had seen from Rich’s CEE papers that Rich was a good writer, Ray accepted Rich’s offer. This time Rich was not surprised. The first column, on the impostor syndrome, had the unfortunate title “Felder’s Philosphy.” Rich hated this title and to this day is unsure who invented it. This first column (CEE, Fall 1988) was selected for the CEE “Startup Teaching Guide” and is available on the CEE home page <http://www.che.ufl.edu/cee/>. The 100th original column appeared in Fall 2014. Rich has loved working with both recent managing editors. When Carole Yocum announced her retirement, Rich wrote her, “If you go, I might as well go also.” Carole took this very seriously and for a period the editorial staff was convinced we were losing our star columnist. Rich commented that Lynn Heasley, Carole’s successor, has been “a joy to work with.”

* * *

On the following pages, a few papers from our historical records let CEE’s early guardians speak for themselves.

ACKNOWLEDGMENT

Lynn Heasley’s help with this article is greatly appreciated.

REFERENCES:

Memos and minutes preserve our history.
CEE survived because a lot of effort went into keeping up support.
From 1975...

Ray Fahien reviewed his report of June 2, 1975 which had been previously sent to the Publications Board and Executive Committee.

The major item of discussion was to decide whether the publications board should be maintained in its present form with a new chairman or whether an outside agency should be used. The volume of industrial advertising is now only about $5000 per year. After much discussion it was decided to maintain the present publications committee and charge them with the responsibility of increasing industrial advertising. The Division Chairman was to appoint a new chairman. (William Corcoran was subsequently appointed for an indeterminate term.)

Ray Fahien asked that members of the Executive Committee contact persons they know in departments which do not subscribe to Chemical Engineering Education (see list in his report) to try to increase subscriptions.

1978...

W. H. Corcoran, Chairman of the Publications Board, asked that the editor send letters to Board members asking them to write to departments which have not renewed their bulk subscriptions or which never subscribed in order to boost subscriptions.

1979...

Ray Fahien announced that Chemical Engineering Education (CEE) did not lose money for the first time in four or five years. Both the number of bulk subscriptions and the average number of copies per subscription increased even though the rates increased. These bulk subscriptions increased from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departments and were also more advertisements from chemical engineering departm