PREFACE

A knowledge of our ancestral roots gives our life meaning — a sense of belonging to a continuous chain — a greater whole. Similarly, a knowledge of our academic ancestry provides us a sense of professional continuity and places our own careers into a historical context.

In that spirit, the Association of Environmental Engineering Professors set out to develop an academic genealogy of the environmental engineering field, to trace our academic ancestry to the birth of the environmental engineering discipline. This report represents the result of that study.

In compiling this genealogy, three guidelines were observed:

1. Only members of AEEP or AEEP members' mentors, or their mentors, were listed.

2. When an AEEP member wished to list more than one mentor, this request was honored.

3. AEEP members who, after several requests for information, declined to participate in the project, were not included in the listing.

Interesting conclusions can be drawn from the listing. First, it seems that the birthplace of environmental engineering in the United States is MIT. Here George Whipple and William Sedgewick developed the sanitary engineering program into a scholarly discipline, with the improvement of public health as the ultimate objective. Gordon Maskew Fair at nearby Harvard University, having himself worked with Karl Imhoff, was a major participant, and the importance of the Lawrence Experiment Station to the fostering of the discipline cannot be overstated. If the citations for Harvard University in the genealogy listing are added to those for MIT, the combination has far and away the highest number of citations.

A second historical origin of environmental engineering seems to have been at the University of Wisconsin. With no apparent links to MIT, M. Starr Nichols seems to have almost singlehandedly established the program at Wisconsin, which continues to flourish to this day. At the University of Illinois, Harold Babitt also independently developed a program of continuing excellence. While this program seems to also have been independent of the MIT connection, Babitt's undergraduate degree was from MIT, and there was probably some influence of the MIT professors on his early work.

On the west coast, the earliest and still one of the foremost environmental engineering programs was at the University of California at Berkeley with P.H. McGaughey, Ben Gotas, Erman Pearson, and Warren Kaufmann. At the Johns Hopkins University, Abel Wolman began a continuing tradition of excellence.

If environmental engineering in the United States has roots, they are firmly imbedded in MIT and Harvard, with secondary origins at Johns Hopkins in the east, Illinois and Wisconsin in the midwest, and the University of California at Berkeley on the west coast.

The number of present AEEP members who can trace their ancestry to these early programs is impressive, and speaks to the vision of the faculty and administrators at these institutions in establishing and nurturing the programs when sanitary engineering was but a minor sub-set of civil engineering.
Based on the number of citations in the academic genealogy, some of the most influential newer programs in the development of environmental engineering faculty are Stanford University, the University of Michigan, Caltech, the University of North Carolina, and Cornell University. In terms of total individual influence, Perry McCarty, Walt Weber, Gerard Rohlich, and Charles O'Mella are cited most often in the mentor list. The numbers are as follows:

Universities with highest number of citations:

- MIT: 37
- U of Wisconsin: 31
- Stanford U: 30
- U of Michigan: 26
- Harvard U: 20
- U of Illinois: 19
- UC Berkeley: 18
- Caltech: 17
- U of North Carolina: 16
- Johns Hopkins: 14
- Cornell: 13

Professors with highest number of citations as mentors:

- Perry McCarty: 15
- Walt Weber: 13
- Gerard Rohlich: 11
- Charles O'Mella: 10
- G. Fred Lee: 7
- Ross McKinney: 7
- Paul Roberts: 7
- Donald O'Connor: 7
- Werner Stumm: 7
- Clair Sawyer: 6
- Rolf Ellassen: 6
- Ernie Gloyna: 5
- Ed Schroeder: 5

As environmental engineering continues to grow, there is the possibility that new programs can develop without having roots in the traditional centers of professional activity. It would therefore be useful and interesting to periodically update the environmental engineering genealogy.

Finally, it is well to reflect on the devotion and wisdom of our academic ancestors in the development of our profession. As an acknowledgement of that debt, this academic genealogy is dedicated to them.

P. Aarne Vesilind
**ACADEMIC GENEALOGY**

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