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Date March 15, 1969

EXCELLENCE IN TEACHING AWARD
Science and Mathematics

State Director:

Dr. Paul W. Tweeten
Consultant, Science Education
Department of Public
Instruction
Grimes State Office Building
Des Moines, Iowa 50319

Candidate in the Area of:
(Check Only One)

Biology	_____
Chemistry	_____
Physics	_____
Earth Science	_____
Mathematics	<u> X </u>

Candidate's Record Form

The candidate should complete this form with complete information for the items requested. Use additional sheets if necessary.

Name Charles Sever Kolsrud Date of birth Oct. 23, 1935

School in which you teach Ackley-Geneva Community School

Address of school 4th and Hardin, Ackley, Iowa 50601

School telephone number 847-3303 Home telephone number 847-2195

Residential address 505 Butler Street

City Ackley, Iowa Zip code 50601

Publications in professional or scientific journals.

None published: but I have participated in the Minnesota Five State project and prepared evaluation comments dealing with the then experimental Illinois program. I was one of three teachers on a panel at the University of Northern Iowa mathematics conferences several years ago that answered questions relating to these programs. I have also prepared a paper dealing with geometry and gave an address from this paper at one of the sectional meetings of mathematics at the state convention. What professional journals and scientific journals do you read regularly?

I subscribe to the "Mathematics Teacher", "Arithmetic Teacher", "Midland Schools", and "Today's Education" and read them regularly. The "Teacher's Letter" and "Mathematics- Senior High School Edition", monthly pamphlets published by Craft Educational Services are furnished by our school system and are also a part of my regular reading. I usually skim "The Educational Digest" and "The Clearing House."

List the professional, scientific, or educational organizations (local, state, and national) in which you are a member. National Council of Teachers of Mathematics, Iowa Council of Teachers of Mathematics, The National Education Association, Iowa State Education Association, Ackley-Geneva Local Teachers Association.

What offices, committee assignments, or program duties have you held in the aforementioned organizations?

I have served as treasurer and am now president of the Ackley-Geneva Local Teachers Association. I am a past president of the Local Teachers Association at Janesville, Iowa, my first teaching position. I served as president of the Bremer County Education Association while at Janesville.

In what other pertinent school or community activities have you been engaged?

I initiated, along with the cooperation of the administration, the Illinois Mathematics Program into our curriculum. This program did not meet with resounding success and we are now using a more moderate series. Nonetheless, we eventually hope to go back to a similar program after our elementary and junior high curricula have been upgraded. The "creative" students did well in the UICSM series, and I definitely gained (continued on back) What Science Fair, Science Talent Search, Science Achievement Award, Student Institute, etc., winners have you sponsored?

Three of my former students have participated in student high school institutes and I have another outstanding student applying this year.

List activities or accomplishments of former students in science/mathematics.

Although I have had limited contact with some of my former students, I know of several who have pursued careers in mathematics and are now in engineering, teaching, mathematics, and science related fields. I know of many who started their college education majoring in mathematics but am not certain what specific fields they are in now.

What scholarships, awards, honors have you received?

Although it probably is not outstanding, I am proud of the fact that I was able to work my way through college and still received a 2.96 overall grade point average in undergraduate school. I have been the recipient of a summer institute from the National Science Foundation at the University of Northern Iowa and also a three year sequential institute at Central Michigan University from the National Science Foundation. Education record (Include Institute, special program, etc., attendance)

College or University	Attendance dates	Years	Degree	Field
Los Angeles City College	1954-56	1½	none	Psychology & Math.
State College of Iowa	1956-61	5	BA	Mathematics History & Phys.Ed.
State College of Iowa	1961	summer	none	Mathematics
Central Michigan University	1963-65	summers	MA	Mathematics
University of Illinois	1966	summer	none	Mathematics (Specifically the UICSM series)

(In what other pertinent school or community activities have you been engaged continued:)

pedagogical insights into the teaching of mathematics. From this point of view the program was a success.

Positions held (professional, teaching, administrative) in chronological order.

Name of organization or school	Position	Years	Number of classes per day
Janesville Consolidated School	Mathematics Teacher Track, wrestling & assitant football coach.	1961-64	6
Janesville Consolidated School	Acting Princinal and Mathematics teacher	half of 1964	3
Ackley-Geneva Community School	Mathematics Teacher	1964-1969	5 to 6

What types of teacher certification do you have?

Permanent Professional

What other pertinent information (programs, courses initiated, unusual teaching procedures, etc.) can you list to assist the selection committee?

Other than promoting curriculum revision, I have experimented with programmed materials both with the talented and less talented students. My success with the undermotivated student was nominal, but there are indications that I can provide still more individual programs allowing for individual differences for our superior students through such utilization.

Academic preparation (Show courses studied in college in the fields below, including Institutes, course number, title of course, year taken, number of semester hours earned, and grades received.)

Biology

82-117 The Biological Sciences - 1957 - 3 - A

Chemistry

Physics

82-116 The Physical Sciences - 1956 - 3-B

Earth Science

Mathematics

No Credit- Plane Geometry - 1954 - 5 - B
No Credit- Trigonometry - 1955 - 3 - C
80-94 - Math for General Ed.-1957-3-B
80-45 - Elementary Analysis I-1957-5 - C
80-46 - Elementary Analysis II-1958-5-C
80-60 - Calculus I - 1959 - 5 - B
80-61 - Calculus II - 1960 - 5 - A
80-107- Mathematics of Finance-1959-2-C
80-190-Teaching of **Sec.** Math. -1958-3-B
80-133-WKSHP Algebra - 1961 - 4 - B
80-133-WKSHP Geometry -1961 - 4 - B
481 - Probability & Stat.Infer.-1963 - 2-B
591 - Sem. Modern Math - 1963 - 4 - B
592 - **Sem.** Problems Tchg. Math. - 1963 - 2 - A-
511 - Topics for Geom. Teachers - 1964 - 2 - A
595 - Math Study Materials - 1964 - 3 - A
512 - Topic Analysis Teachers - 1964 - 3 - A-
411 - Projective Geometry - 1965 - 2 - A
460 - Computer Programming - 1965 - 3 A
453 - Intro. to Complex Variables - 1965 - 3 - B
459 - Secondary Education in UICSM Mathematics - 1966 - 6 - A

Education

No Credit-General Psychology-1956-6-B
21-14-Teacher & Child - 1957 - 5 - B
20-16-Psychology of Learning-1958-5-B
28-138-High School Teaching-1960-8-B
21-203-Current Issues Higher Ed.-1964-3-A
21-231-School & Community Rel. - 1965-3-B

Write a brief essay about your teaching. This should include a short discussion of your teaching philosophy and the role of science/mathematics in general education. You might describe any of your activities not covered in the above items.

My philosophy of education is intrinsically a part of my philosophy of life. Succinctly stated, my philosophy of life tends toward what I would call "humanistic idealism." I believe in a benevolent, rational, supernatural being - a being that has created all things, man existing as one small part of this creation. I have faith that God, or this superior being, designed the universe and all its components for some specific purpose. Since I am a small part of this universal design, logic would lead me to believe that He has given me some specific purpose in this stupendous system, be it big or small, to fulfill. It is a fact that man's life span on earth is relatively short; therefore I believe, that man should enjoy life to the utmost by developing a mature outlook which supercedes racism, and bigotry. An outlook that realistically sees not only the weaknesses of mankind, but his strengths and diligently endeavors through all forms of education to accentuate and improve upon them. Maturity ultimately makes man more rational and, in my estimation, brings him closer to God. Hence, I would say that my philosophy of life is founded on mysticism-faith in God - and rationalism - faith in man's reasoning ability, a God given power.

Education is the means by which man has raised himself from a state of nature to a state of civilization. God has endowed man with a functional mind by which he can reason. Education improves the mind's reasoning power. My philosophy of education is literally based on a proverb I read some years ago. "The discovery of ignorance is the beginning of knowledge."

Specifically, I endeavor to make my students cognizant of the fact that no one person knows it all. This includes the students and teacher as well. Learning involves effort and not mere memorization of facts. Since each of them is wonderfully unique; they should look into the various aspects of education and mathematics that are relevant to them. Their study in math might take some of them into aspects of mathematics beyond the education of the teacher and hopefully to new horizons of knowledge. Mathematics pervades almost all areas of everyday life in one form or another, so it can be of value to each student.