



# THE CONNECTICUT STATE UNIVERSITY

P.O. Box 2008 • New Britain, Connecticut 06050 • (203) 827-7701

## RESOLUTION

concerning

## APPOINTMENT OF

DR. J. PHILIP SMITH

as

DEAN, SCHOOL OF ARTS AND SCIENCES

at

SOUTHERN CONNECTICUT STATE UNIVERSITY

JUNE 19, 1987

WHEREAS, Southern Connecticut State University has conducted a search to fill the position, Dean, School of Arts and Sciences, and

WHEREAS, The President of Southern Connecticut State University, after due consultation with the faculty, has recommended the appointment of Dr. J. Philip Smith, and

WHEREAS, President Beal concurs in this recommendation, now therefore, be it

RESOLVED, That effective June 1, 1987, under the terms and conditions of the Trustees' "Personnel Policies for Management and Confidential Professional Personnel," Dr. J. Philip Smith be and hereby is appointed Dean, School of Arts and Sciences at Southern Connecticut State University, at a bi-weekly salary rate of \$2,509.58 (annual salary of \$65,500).

A Certified True Copy:

Dallas K. Beal  
President

## CURRICULUM VITA

1. Name J. Philip Smith
2. Date and Place of Birth April 24, 1940;  
Hartford, Connecticut
3. Present Rank Professor and Chairperson  
Department of Mathematics  
Southern Connecticut State University  
New Haven, Connecticut 06515
4. Date of Appointment to SCSU and Rank  
September, 1965 - Assistant Instructor
5. Date of Other Promotions at SCSU and Rank  
September, 1979 - Professor  
September, 1974 - Associate Professor  
July, 1969 - Assistant Professor  
September, 1966 - Instructor
6. Education
  - A. Graduate Degrees  
Columbia University, 1973, Ph.D., Mathematics Education  
(Thesis: "The Effect of General versus Specific  
Heuristics in Mathematical Problem-Solving Tasks")  
Stanford University, 1964, M.S., Mathematics
  - B. Undergraduate Degree  
Dartmouth College, 1962, B.A., Mathematics Honors
7. Teaching and Non-Teaching Professional Assignments Other Than SCSU

Visiting Professor, Department of Mathematics and Science Education; Teachers College, Columbia University, 1983 to present

OAS Lecturer, Department of Mathematics, Universidad Tecnica del Estado, Santiago, Chile, July 1979; January, 1980

Visiting Associate Professor, Teachers College, Columbia University, Academic year, 1979-1980

8. Other Professional Experience

Member, Extraordinary Evaluation Team (of tenured faculty members faced with possible dismissal), United Nations International School, New York City, April - May, 1978

Co-Director, Workshop in "The Metric Space," Teachers College, Columbia University, July - August, 1976; July 1977; June, 1978

Director, Workshop in "Use of the Hand-Held Calculator," Teachers College, Columbia University, Spring 1978

Director, Workshop in "The Theory and Teaching of Problem Solving," Teachers College, Columbia University, July, 1977

Consultant and writer for Secondary School Mathematics Curriculum Improvement Study, Summer, 1971; Summer, 1972

Researcher for Commission for Higher Education in connection with Task Force IV on "Qualitative and Quantitative Performance and Achievement in Higher Education," Summer, 1970

9. Scholarship

A. Books

Author, as member of Secondary School Mathematics Curriculum Improvement Study. Unified Modern Mathematics: Geometric Mappings and Transformations, Teachers College Press, Columbia University, 1973

Co-Author, with Lennart Rade, as members of Secondary School Mathematics Curriculum Improvement Study. Unified Modern Mathematics: Introduction to Statistical Inference, Teachers College Press, Columbia University, 1972

B. Chapters, Articles and Reviews

"Young Children Reinvent Arithmetic" (a review), Teachers College Record, 88, No. 1, Fall, 1986, p. 110-113.

"Introduction to General Topology" (a review), School Science and Mathematics, 86, No. 4, April, 1986, p. 346

"Reason in the Age of Science" (a review), School Science and Mathematics, 86, No. 3, March, 1986, pp. 260 - 261

"Factors Affecting Achievement in the First Course in Calculus," Investigations in Mathematics Education, 18, No. 3, Summer, 1985, pp. 21 - 25, ERIC  
The Ohio State University, Columbus

B. Chapters, Articles and Reviews (cont.)

"Brain Stretchers" (a review), School Science and Mathematics, 85, No. 2, February, 1985, pp. 160 - 161

"Mathematics Achievement and Fear of Success" Investigations in Mathematics Education, 16, No. 1, Winter, 1983, ERIC, The Ohio State University, Columbus

"Random Digits and Simulation" (with Edward Silver), Teaching Statistics and Probability, 1981 Yearbook, National Council of Teachers of Mathematics, Reston, Virginia, 1981

"On Making Effective Use of the Advice, 'Think of a Related Problem'" (with Edward Silver), Problem Solving in School Mathematics, 1980 Yearbook, National Council of Teachers of Mathematics, Reston, Virginia, 1980

"A Process-Sequence Coding System for Behavioral Analysis of Mathematical Problem Solving" (with J. F. Lucas, N. A. Branca, D. Goldberg, M. G. Kantowski, H. M. Kellog). In G. Goldin and E. McClintock (eds.) Task Variables in Mathematical Problem Solving, ERIC, The Ohio State University, Columbus, 1979

Review of CLEP Subject Examination in Calculus with Analytic Geometry; Review of CLEP Examination in College Algebra. In Oscar K. Buros (ed.) The Eighth Mental Measurements Yearbook

"The Learning of Problem Solving in Secondary School," The FSC Journal of Mathematics Education, No. 15, Frostberg State College, Frostberg, Maryland, 1978

"Probability, Geometry, and Witches," Student Mathematics Journal, National Council of Teachers of Mathematics, May, 1972

Author, as member of Secondary School Mathematics Curriculum Improvement Study. "Probability: Infinite Outcome Sets and Applications," Unified Modern Mathematics, Course 6, Teachers College Press, Columbia University, 1972

Author, as member of Secondary School Mathematics Curriculum Improvement Study. "Probability: Expectation and Markov Chains," Unified Modern Mathematics, Course 5, Teachers College Press, Columbia University, 1972

C. Miscellaneous

Problems posed for solution, School Science and Mathematics: 80, October, 1980, p. 525; 78, November, 1978, p. 620; 76, October, 1976, p. 527 (with Edward Silver)

Problem solutions published, School Science and Mathematics: 81, May/June, 1981, p. 440; 79, October, 1979, p. 529 (with Henry Gates); 78, April, 1978, p. 534

Problem solutions acknowledged, School Science and Mathematics, 81, March 1981, p. 264; 80, October, 1980, p. 528; March, 1980, p. 264

Editor's Comment concerning a Problem Solution by P. Smith, The American Mathematical Monthly, April, 1968

Acknowledgement of Problem Solution, The American Mathematical Monthly, December, 1967

D. Presented Papers, Workshops and Other Professional Talks

"The Future of Mathematics Education," luncheon speaker at spring meeting of the Connecticut Mathematics Leadership Forum, North Haven, May, 1986

"Probability and Intuition," luncheon speaker, annual meeting of the Association of Teachers of Mathematics in Maine, Portland, November 1985

"What is Discrete Mathematics" delivered at the annual meeting of the Association of Teachers of Mathematics in Maine, Portland, November, 1985

"Discrete Mathematics and the Secondary Curriculum" delivered at the Fall Conference of the Associated Teachers of Mathematics in New England, Manchester, New Hampshire, October, 1985

"Problem Solving in the K - 8 Mathematics Curriculum" delivered at the Spring Conference of the Elementary and Middle School Principals' Association of Connecticut, New Haven, May, 1985

"Problem Solving: Discovering, Exploring and Investigating" delivered at the northeast regional meeting of the National Council of Teachers of Mathematics, Parsippany, New Jersey, March, 1985

"What is Discrete Mathematics?" delivered at the annual meeting of Associated Teachers of Mathematics in Connecticut, Willimantic, March, 1985

D. Presented Papers, Workshops and Other Professional Talks  
(cont.)

"Mathematical Problem Solving" delivered to Metropolitan School Study Council, New York City, December, 1984

"Discovering, Exploring and Investigating" -- a mathematics workshop sponsored by Project Learn, Clinton and East Lyme, May, 1984

"The Development of Mathematical Concepts" -- a critique of five research papers delivered at the annual meeting of the American Educational Research Association, New Orleans, April, 1984

"Problem Solving" delivered at mathematics conference sponsored by Project Learn, Madison, December, 1983

"Museums, Duels, and Probability" delivered at the fall meeting of the Associated Teachers of Mathematics in Connecticut, Danbury, April, 1983

"Problem Solving in the Classroom" delivered at the fall meeting of the Mathematics Association of Two-Year Colleges of New Jersey, Somerville, New Jersey, September 1982

"Problem Solving in the 80's," workshop conducted for the Clarkstown Central School District, West Nyack, New York, June, 1981

"Analysis and Synthesis of Mathematical Problem-Solving Processes" (with G. Kulm, P. F. Campbell, M. Frank, G. Talsma). Paper presented at the Annual Meeting of the National Council of Teachers of Mathematics, St. Louis, Missouri, April, 1981

"Preparing Faculty for Remedial Mathematics Teaching" delivered at the conference of Remedial and Developmental Mathematics in College: Issues and Innovations (sponsored by the City University of New York), New York, New York, April, 1981

"Problem Solving and Classroom Teaching" delivered at the Annual Meeting of the Ten-County Mathematics Conference, Ossining, New York, April, 1981

"Heuristics and Problem Solving," day-long workshop conducted for gifted/talented secondary students, under the auspices of the Board of Cooperative Educational Services (Putnam, Norther, Westchester Counties), Yorktown Heights, New York, March, 1981

D. Presented Papers, Workshops and Other Professional Talks  
(cont.)

"Problem Solving: Classroom Strategies and Tactics" delivered at the Annual Teachers Workshop of the Suffolk County Mathematics Teachers Association, Seldon, New York, March, 1981

"Strategies for Teaching Problem Solving" delivered at the annual meeting of the Association of Teachers of Mathematics of New York City, May, 1980

"Problem Solving in the Secondary School," a series of workshops given at Ossining High School, Ossining, New York, March, April, 1980

"Problem Solving in the Classroom," a day-long seminar held at the Morristown-Beard School, Morristown, New Jersey, May, 1980

"Probability: Rx for Lively Classes" delivered at the annual conference of the New Hampshire Section of the Association of Teachers of Mathematics in New England, Plymouth, March, 1980

"Probability and Intuition in the Middle Grades" delivered at the annual conference of the Associated Teachers of Mathematics of New England, Springfield, Massachusetts, November, 1979

"Problem Solving in the Classroom," a talk and workshop given under the auspices of the University of New Hampshire and the National Science Foundation, Concord, New Hampshire, April, 1979

"Problem Solving in the Secondary Schools" delivered at the Eleventh Annual Meeting of the National Council of Supervisors of Mathematics, Boston, Massachusetts, April, 1979

"Curriculum Implications of Metrication" delivered at the Workshop in Mathematics for Publishing Personnel, Teachers College, Columbia University, New York, New York, June, 1978

"The Learning of Problem Solving in the Secondary School" delivered at the Ninth Annual Mathematics Symposium, "Problem Solving Explored," of Frostberg State College, Frostberg, Maryland, April, 1978

Member of panel entitled "Research in Problem-Solving Processes: II," Annual Meeting of the National Council of Teachers of Mathematics, San Diego, California, April, 1978

D. Presented Papers, Workshops and Other Professional Talks  
(cont.)

"The Learning and Teaching of Problem Solving" delivered at the Annual Meeting of the Associated Teachers of Mathematics of New Hampshire, Bedford, New Hampshire, April, 1978

"Probability and Problem Solving" delivered as luncheon speaker at the Annual Meeting of the Associated Teachers of Mathematics in Connecticut, New Haven, Connecticut, February, 1978

"Learning and Teaching of Problem Solving: Do Models Offer Any Hope?" Paper read at the Models of Learning Mathematics Symposium, University of New Hampshire, Durham, New Hampshire, October, 1977

"Measurement: An Excursion Through the Past" delivered at the Annual Meeting of the Associated Teachers of Mathematics of New York State, Grossingers, New York, September, 1977

Coordinator and member of panel on "Research in Problem-Solving Processes," Annual Meeting of the National Council of Teachers of Mathematics, Cincinnati, Ohio, April, 1977

"Problem-Solving--Can We Teach It? How?" delivered at a Regional Meeting of the National Council of Teachers of Mathematics, Boston, Massachusetts, November, 1976

"Basic Unifying Concepts in the SSMCIS Program" delivered to an SSMCIS Workshop, SUNY at Stony Brook, July 18, 1975

"Mathematical Models and the SSMCIS Program" delivered at a Workshop for Teachers and Leadership Specialists, Wayne, New Jersey, March, 1975.

"Probability in a Unified Mathematics Program" delivered at the Annual Meeting of the National Council of Teachers of Mathematics, Atlantic City, New Jersey, April, 1974

"Problem-Solving Research and Its Applications to Classroom Instruction" delivered at a Regional Meeting of the National Council of Teachers of Mathematics, Philadelphia, Pennsylvania, March, 1973

"Tree Diagrams and the Expectations of a Random Variable" delivered at the Winter Meeting of the Suffolk County Mathematics Teachers Association, Huntington, New York, February, 1973



D. Presented Papers, Workshops and Other Professional Talks  
(cont.)

"The Expectations of a Random Variable" delivered  
at an NSF Institute, Teachers College, Columbia  
University, New York, New York, August, 1972

"Problem Solving" delivered as part of a symposium  
at the Annual Meeting of the National Council of  
Teachers of Mathematics, Chicago, Illinois, April,  
1972

"Probability in the SSMCIS Program" delivered  
at an NSF Institute, Teachers College, Columbia  
University, New York, New York, August, 1971

E. Professional Community Service

General Chairman, Northeast Regional Meeting,  
National Council of Teachers of Mathematics,  
Hartford, October, 1986

Judge, Connecticut MATHCOUNTS competition, 1986

~~Coach, Connecticut Junior High School MATHCOUNTS~~  
Championship team, 1984, 1985, 1986

Participant, Jobs for Connecticut's Future  
Conference, January, 1985

Member, CONNCEPT Math Advisory Committee,  
Connecticut State Board of Education, 1984-85

General Chairman, 1984 Annual Meeting, Associated  
Teachers of Mathematics in Connecticut

Mathematics Curriculum Consultant, Town of Madison,  
1984-85

Member, State of Connecticut Selection Committee  
for the Presidential Awards for Excellence in Science  
and Mathematics Teaching, 1983

Mathematics Reviewer: How it Works: A Popular  
Encyclopedia of Science and Technology,  
Encyclopedia Britannica, 1984

Reviewer, PSC/CUNY Research Grant Program of the City  
University of New York, 1983

Presider at session, "Counting, Numeration, and  
Arithmetic Capabilities of Primary School Children,"  
Sixtieth Annual Meeting of National Council of  
Teachers of Mathematics, Toronto, Ontario, April, 1982

E. Professional Community Service (cont.)

Chairperson and Discussant at session, "Factors Underlying Secondary School Mathematics Learning," Annual Meeting of the American Educational Research Association, New York, New York, March, 1982

Treasurer, Special Interest Group/Research in Mathematics Education (American Educational Research Association), 1982-84

Presider and critic at session, "Research in Mathematical Problem Solving," 4th International Congress on Mathematical Education, Berkeley, California, August, 1980

Reviewer of funding proposals submitted to the Research in Science Education Program, National Science Foundation, May-June, 1980; February, 1981; May, 1984

Member of panel reviewing funding proposals submitted to the Research in Science Education program, National Science Foundation, Washington, D.C., June, 1977; October, 1984

Consultant on NSF Projects:

SED 79 20596  
Mathematical Problem Solving Processes  
Purdue University  
Project Director: Gerald Kulm  
1980-1981

SED 79 -  
Problem Solving Processes of Upper Elementary and  
Junior High School Mathematics Students  
San Diego State University  
Program Director: Nicholas Branca  
1980

SED 77 18543  
The Use of Heuristics in Problem Solving  
University of Florida  
Project Director: Mary Grace Kantowski  
1978

Member of Evaluation Committee for 1979 Annual Meeting of National Council of Teachers of Mathematics, 1978-1979

Coordinator, Research Group for the Study of Heuristics Used in Combination, sponsored by the Problem Solving Project of the University of Georgia Center for the Study of Learning and Teaching Mathematics, 1975-1979.

E. Professional Community Service (cont.)

Member, Problem Bank Editorial Panel of the Mathematics Problem Solving Research Bank (centered at Purdue University and established in cooperation with the Problem Solving Project of the Georgia Center for the Study of Learning and Teaching Mathematics, 1975 to 1979

Reader, Advanced Placement Calculus Examination, Educational Testing Service, Princeton, New Jersey, June 1985, 1986.

Reviewer of annual meeting program submissions for Section 4, Division C, American Educational Research Association, 1984, 1985, 1986

Reviewer of articles submitted for publication in Journal for Research in Mathematics Education, 1976 to present

Reviewer of articles submitted for publication in School of Science and Mathematics, 1982 to present

Articles Teaching and Non-Teaching Professional Assignments at SCSU

A. Courses Taught

(i) Undergraduate

MAT 90	Arithmetic Skills and Concepts
MAT 95	Elementary Algebra
MAT 98	Elementary Mathematics
MAT 103	Mathematics for Liberal Arts
MAT 104	Finite Mathematics
MAT 105	Mathematics for Elementary Education I
MAT 106	Mathematics for Elementary Education II
MAT 107	Elementary Statistics
MAT 130	Trigonometry
MAT 138	Pre-Calculus
MAT 140	Calculus I
MAT 141	Calculus II
MAT 205	Basic Ideas in Geometry I
MAT 242	Calculus III
MAT 250	Fundamentals of Mathematics
MAT 272	Linear Algebra
MAT 283	Engineering Mathematics III
MAT 284	Engineering Mathematics IV
MAT 320	Probability
MAT 321	Mathematical Statistics
MAT 360	Foundations of Geometry
MAT 375	Abstract Algebra I
MAT 376	Abstract Algebra II
MAT 378	Discrete Mathematics
MAT 380	Topology
MAT 430	Projective Geometry

A. Courses Taught (cont.)

(i) Undergraduate (cont.)

MAT 498 Seminar in Mathematics  
(Operations Research)  
MAT 499 Independent Study  
EDU 492 Secondary School Mathematics  
HON 150 Introduction to Critical Inquiry

(ii) Graduate

MAT 509 Linear Algebra I  
MAT 525 Probability and Statistics I  
MAT 530 Projective Geometry  
MAT 581 Analysis II (Leadership Development  
Project)  
MAT 596 Linear Algebra (Leadership Development  
Project)

B. Non-Teaching Assignments

Supervisor for secondary school teachers seeking a  
waiver of the student teaching requirement, 1971-1972,  
1972-1973

11. Professional and Academic Activities Within CSU

A. Departmental

Chairperson, 1982 - present  
Curriculum Committee 1977-1979, 1980 - present  
(Chairperson, 1980-1982)  
Graduate Curriculum Committee, 1970-1977  
(Chairperson, 1971-1973)  
Personnel Committee, 1974-1977  
(Chairperson, 1975-1977)  
Elementary Education Committee, 1973-1976  
Undergraduate Curriculum Committee, 1975-1976

B. Campus Wide

Department Evaluation Committee, Department of  
Management, Marketing and MIS, 1985-1986  
Honorary Degree Committee, 1984 - present  
Dean's Committee on Reassigned Time, Chairperson,  
Spring, Fall, 1984; Spring, 1985; Spring, 1986  
Honors College Committee, Chairperson, 1982-1986  
Search Committee for Vice-President of Academic  
Affairs, Chairperson, 1985-1986  
Search Committee for Chairperson of Computer Science  
Department, 1983  
Geography Department Chairpersonship Arbitration  
Committee, 1982  
Task Force on the State of the College, 1975-1976

B. Campus Wide (cont.)

Long-Range Planning Committee, 1972-1979  
Graduate Council, 1972-1973, 1974-1977  
Arts and Sciences Curriculum Committee,  
Chairperson, 1974-1977  
College Curriculum and Instruction Committee,  
1968-1969  
Student Rights Committee, 1968-1969  
Library Committee, 1968-1969

C. State Wide

Advisory Committee on "Experimental College," 1986  
Faculty Advisory Council to the Board of Trustees,  
1973-1977 (Chairperson, 1975-1977)

D. Sponsorship of Honors and Master's Theses

Sponsor of Honors Thesis, "Axiomatic and Symbolic Logic,"  
1967-1968