

FACULTY RESEARCH INTEREST DIRECTORY 1999-2000



College of Science & Engineering

ST. CLOUD STATE
UNIVERSITY

COSE Faculty Research Interest Directory

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updated October 8, 1999

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Sarnath Ramnath

aluminum and iron overloads

Yehia Hamada

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Yehia Hamada

analog and digital communications

Yi Zheng

analysis

Dale Buske

Leo K. Leung

Sandra Zaroondy Keith

analytical chemistry

Mike Jeannot

antacids

Yehia Hamada

applied experimental design

Mary Evenson

applied mathematics

Mohammed Bahauddin

applied statistics

Leonard Onyiah

appropriate technology

Michael Karian

aquatic insects

Ralph Gundersen

archaeoastronomy

Mark Nook

architecture

Larry L. Grover

artificial life

Theresia Fisher

assembly language

Matthew Carroll

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Mark Nook

asynchronous

Jie Hu

atmosphere

Gregory Nastrom

ATP analogs

Tammy Stobb

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biodiversity

Sandra J. Turner

bioinorganic chemistry

Mohammad Mahroof-Tahir

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cancer biology

JoAnn Meerschaert
Timothy J. Schuh

categorical data analysis

Hameed Bayo Lawal

cell biology

JoAnn Meerschaert
Timothy J. Schuh

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JoAnn Meerschaert

chemical composition of comets

Maria Womack

circumstellar polarization

Mark Nook

climate

Robert Weisman

climate dynamics

Tony Hansen

coding theory

Jeff Chen

combinatorial optimization

Bryant Julstrom

communications

James A. Nicholson

computability theory

Stephen Walk

computational chemistry

Daniel Gregory

computational geometry

Sarnath Ramnath

computed tomography

Ih-Ren Lan

computer

Matthew Carroll

computer applications

Sura Lekhakul

computer architecture

Jayantha Herath

computer design

Sura Lekhakul

computer ethics

Theresia Fisher

computer graphics

Sarnath Ramnath

computer hardware

Joseph Marks

computer network performance

Dennis Guster

computer networking

Diana Svirskiene
Richard Mowe

computer networks

Adomas Svirskas
Dennis Guster

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Richard Mowe

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Joseph Marks

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Kurt Helgeson

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Richard A. Sundheim

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Juan Cabanela

data structures

Sarnath Ramnath

deep ecology

Michael Karian

demonstrations (chemical)

Jack McKenna

density estimation

David H. Robinson

design and analysis of experiments

Leonard Onyiah

developmental biology

Timothy J. Schuh

diabetes

Mohammad Mahroof-Tahir

differential and integral equations

Ralph W. Carr

digital signal processing

Yi Zheng

discrete computational structures

Gary D. Buls

discrete mathematics

Daniel J. Scully

disk drive technology

Peter George

distributed computing

Jayantha Herath

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Susan Haller

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embedded system

Jiecai Luo

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Anthony E. Schwaller
Anthony I. Akubue

entomology

Standley E. Lewis

environmental biology

John H. Peck

environmental education

Michael Karian

ergodic theory

Danrun Huang

ethnobotany botany

Jorge Arriagada

evaluation

Hope Thornberg

evolution

Nathan Winter

evolutionary computation

Bryant Julstrom
Terence Soule

experimental design

David H. Robinson
Hameed Bayo Lawal
James W. Johnson

experimental methods

Steven J. Covey

extended shelf-life of bakery products

Mary Evenson

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Youpeng Zong

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Jorge Arriagada

forecasting

Robert Weisman

forensic chemistry

Tammy Stobb

fractional calculus

Ravindra Nath Kalia

freshwater ecology

Neal J. Voelz

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Neal J. Voelz

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Mary Evenson

functional analysis

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galactic formation

Juan Cabanela

galaxy properties

Juan Cabanela

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genetic engineering

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genetic programming

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Alfred Pekarek

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Peiyi Zhao

global warming

Alfred Pekarek

graph theory

Jeff Chen

Peiyi Zhao

Sandra Zaroondy Keith

graphics

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James A. Nicholson

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hardware

Larry L. Grover

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Jiecai Luo

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logic design

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Joseph Marks

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microprocessor applications

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microprocessor design

Sura Lekhakul

Minnesota Algae Project

Keith Knutson

mm/sub mm wavelength spectroscopy

Maria Womack

models for control of animal diseases

Leonard Onyiah

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Leonard Onyiah

modern algebra

Daniel J. Scully

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Oladele Gazal

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solid-state

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Del Marie Rysavy
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technology and social change

Anthony E. Schwaller

technology and third world development

Anthony I. Akubue

technology education

Kurt Helgeson

technology transfer

Anthony I. Akubue

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Gregory Nastrom
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Home Page

Keywords technology transfer, technology and third world development, energy technology

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Home Page

Keywords flight training, aviation safety, aviation

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Keywords plant taxonomy, floristics, wetlands, conservation, ethnobotany botany

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Ph.D. 1969, New Mexico State University
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Keywords applied mathematics, mathematical modeling

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Keywords lasers, optics, rare earths

Gary D. Buls Professor

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Ph.D. 1986, Iowa State University of Science and Technology
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Keywords numerical analysis, discrete computational structures

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Ph.D. 1997, Iowa State University of Science and Technology

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Keywords analysis, algebra, operations research

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Juan Cabanela Assistant Professor

Dept: Physics, Astronomy, & Engineering Science

Ph.D. 1999, University of Minnesota

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Keywords low surface brightness galaxies, galactic formation, galaxy properties, large-scale surveys, data mining in astronomical datasets

Ralph W. Carr Professor

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Ph.D. 1977, University of Wisconsin-Madison

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Keywords computer science, differential and integral equations

Matthew Carroll Associate Professor

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Home Page

Keywords heat transfer, assembly language, interfacing, computer, machine language

Jeff Chen Assistant Professor

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Ph.D. 1996, Yale University

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Home Page

Keywords number theory, automorphic form, representation theory, coding theory, graph theory

Steven J. Covey Professor

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Ph.D. 1993, University of Cincinnati

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Home Page

Keywords mechanical design, manufacturing processes, experimental methods, finite element methods, thermal sciences

John C. Cronn Professor

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Home Page

Keywords microbial physiology, protein purification, plant-microbe interaction, virology

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Keywords distributed databases, operating systems, graphics, object-oriented systems

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Home Page

Keywords plant physiology, plant biochemistry, plant molecular biology, plant differentiation, plant growth and development

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Dept: Chemistry

Ph.D. Cereal Chemistry & Technology

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Home Page

Keywords bakery goods product development, frozen dough product development, extended shelf-life of bakery products, applied experimental design, modified atmosphere packaging for bakery products

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Keywords artificial life, systems engineering, computer ethics

Michael B. Fiske Associate Professor

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Keywords mathematics education, technology

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Home Page

Keywords physiology, neuroendocrinology, reproduction, nutrition, livestock

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Keywords magnetic head design, electronic circuit design, electronic material design,

disk drive technology, recording technology

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Home Page

Keywords photo-organic chemistry, computational chemistry

Alfred H. Grewe Professor

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Home Page

Keywords field biology, wildlife management

Larry L. Grover Professor

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Keywords architecture, hardware, logic design, program design, object-oriented design

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Home Page

Keywords aquatic insects, crustaceans

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Home Page www.stcloudstate.edu/~mcs

Keywords computer networks, LANs, WANs, computer network performance, network design

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Home Page

Keywords nuclear theory, heavy ion collisions, electromagnetic probes, quark gluon plasma, nuclear (hadronic) matter

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Home Page

Keywords mathematics, education

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Home Page

Keywords aluminum and iron overloads, aluminum toxicity, renal failure, kidney disease, antacids

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Home Page

Keywords dynamic meteorology, climate dynamics

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Home Page

Keywords statistics, inference, multi -variate, incomplete, SAS

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Home Page

Keywords instrumental spectroscopy, optical design

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Home Page

Keywords science education

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Keywords construction, rural development, affordable housing, technology education, process improvement

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Home Page

Keywords computer architecture, distributed computing

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Home Page

Keywords parallel computing, asynchronous, self-organize map

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Keywords symbolic dynamics, topological dynamics, ergodic theory, matrix theory, functional analysis

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Keywords analytical chemistry, separations, sample preparation, microextraction, mass spectrometry

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Keywords genetic algorithms, evolutionary computation, combinatorial optimization

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Keywords in-service teachers, teacher preparation

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Keywords optimal control, control & application, embedded system, signal processing, image processing

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Keywords stellar astronomy, circumstellar polarization, archaeoastronomy, astronomy education

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Keywords education, technology, learning, cooperative learning, teaching

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Keywords landscape ecology, ecosystems, vegetation pattern, scale in ecology, biodiversity

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Keywords freshwater ecology, stream ecology, freshwater invertebrates, water quality

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Keywords mm/sub mm wavelength spectroscopy, infrared wavelength spectroscopy, optical wavelength spectroscopy, imaging of comets, chemical composition of comets

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Keywords industrial engineering, computer simulation, productivity improvement, facility layout design, quality control

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COSE Faculty Research Interest Directory

Listing by Department of Faculty in the Research Interest Directory

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<u>Earth Science</u>	<u>Electrical Engineering</u>	<u>Environmental & Technological Studies</u>	<u>Manufacturing Engineering</u>
<u>Mathematics</u>	<u>Physics, Astronomy & Engineering Science</u>	<u>Statistics</u>	

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Aviation HH 216

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Steven L. Anderson

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David C. Kramer
Standley E. Lewis
Denise M. McGuire
JoAnn Meerschaert
David Peter Sogn Mork
A.I. Musah
John H. Peck
Gordon D. Schrank
Timothy J. Schuh
Patricia Simpson
Judith L. Torrence
Sandra J. Turner
Neal J. Voelz
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Bryant Julstrom

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James A. Nicholson
Charles L. Rose
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Matthew Carroll
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Ravindra Nath Kalia
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David R. Lahren
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Mary G. Richardson

David H. Robinson

Del Marie Rysavy

Richard A. Sundheim

Adomas Svirskas

Diana Svirskiene

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COSE Faculty Research Interest Directory

Centers Directory

<u>Applied Research Center</u>	<u>Clinical Sciences Program</u>	<u>Computer Network Research Center</u>
<u>Math Skills Center</u>	<u>Micro-computer Studies Program</u>	<u>Planetarium & Observatory</u>
	<u>Statistical Consulting Center</u>	

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Our mission is to assist faculty, students and staff with all aspects of research, including planning, obtaining support, doing research, publicizing activities and disseminating results. We work together with the COSE Dean, the Office of Sponsored Programs, the university-wide Applied Research Committee and other university research centers to establish short and long term research goals for COSE and St. Cloud State University.

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The SCSU Planetarium is a unique educational facility that strives to educate university students and the people of central Minnesota about the natural world above them. The SCSU Observatory strives to further our understanding of the natural world beyond Earth's atmosphere through astronomical research, the training of scientists and educators in astronomical research methods, and outreach to the public.

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Statistical Consulting Center

ECC 101

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Directors: David Robinson and Randy Kolb

The Statistical Consulting Center can provide help with designing surveys or questionnaires, entering data once surveys are collected, running statistical software to analyze the data, and interpreting the results of the analysis.

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College of Science and Engineering

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Planetarium
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COSE Academic Departments

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