4979 South Hoyt Street
Littleton, Colorado 80123-1988

January 16, 1990

William D. Emerson
Metropolitan State College
Department of Mathematics
Denver, Colorado 80204

Dear Dr. Emerson,

The following material concerns the presentation of some of my work at the upcoming 66th annual divisional meeting of the AAAS. The four day meeting will be held at the Embassy Suites Hotel, 7290 Commerce Center Drive in Colorado Springs, Colorado, this coming May 16-19.

In response to their Call For Papers, I submitted two abstracts (see attached copies) last October. On November 6th I received an acceptance notice from their executive director, Dr. Balcomb.

At the General Poster Session I plan to have handout copies of the same introduction article which I mailed to you earlier. The cover sheet will, of course, be different.

Because this work presents such a profound revolution in the concepts on which the description of nature has until now been founded, I am hoping that the academic world will, with patience, allow me to speak. Unless a fault is found, this work will remain as a valid alternative to the traditional foundations of science and mathematics.

Sincerely,

John P. Colvis

Recd 6 Nov '89

John P. Colvis
Martin Marietta
Astronautics Group
SLS
PO Box 179
M/S L5540
Denver, Co. 80201

Southwestern and Rocky Mountain Division
American Association for the Advancement of Science
Colorado Mountain College, 215 Ninth Street
Glenwood Springs, CO 81601
(303)945-5516

Your abstract has been received and is in order. Notice of its-acceptance and time and place in the program should reach you from the Section Secretary about the first of February. We look forward to seeing you at the 1990 Colorado Springs meeting.

M. Michelle Balcomb
Executive Director

Southwestern and Rocky Mountain Division
American Association for the Advancement of Science

Sixty-Sixth Annual Meeting
with
The Colorado Alliance for Science
The Colorado College
University of Colorado at Colorado Springs
Pike's Peak Community College
The Air Force Academy
16-19 May 1990 Colorado Springs

PLANET EARTH: STRATEGIES FOR THE FUTURE

Newsletter Volume 7, No. 1 September, 1989

General Information

Colorado Springs, Colorado, will be the site of the sixty-sixth Annual Meeting of the Southwestern and Rocky Mountain Division of the American Association for the Advancement of Science, 16-19 May 1990. The meeting will be held with the Colorado Alliance for Science, the Colorado College, University of Colorado at Colorado Springs, Pike's Peak Community College,and the Air Force Academy. The Colorado Biology Teacher's Association, Colorado Association of Science Teachers, and the Colorado Earth Science Network have also been invited to participate in the meetings. Members of the Division (all AAAS members in Arizona, Colorado, Kansas, Nebraska, New Mexico, Oklahoma, Texas, Wyoming, Montana east of the Continental Divide, and Sonora and Chihuahua, Mexico), other scientists, and graduate students are invited to present research reports or to participate in symposia or workshops at the meetings.

Disciplinary Sections of the Division include:

Biomedical Sciences (including microbiology, developmental and molecular biology)
Computer Sciences, Mathematics and Statistics
Environmental Sciences
General Poster Session
Geology and Geography
History and Philosophy of Science
Physical Sciences and Engineering
Plant Sciences (including Agriculture, Horticulture, and Plant Genetics)
Psychological Sciences
Science Education
Social Sciences (including Women's Studies, Ethnic Studies, Anthropology, and Political Science)
Zoological Sciences (including Animal Behavior)

When submitting abstracts, please indicate in which of these sections you wish your paper to be presented.

The Local Arrangements Committee has Joseph D. McInerney (BSCS) and Sallie A. Watkins (University of Southern Colorado) as Co-Chairmen. Other members of the Committee are Roger Bybee (BSCS), Sue Graham (Manitou Springs), Paul K. Grogger and Mark Malone (University of Colorado at Colorado Springs), Tass Kelso and Barbara L. Winternitz (The Colorado College), Joan C. Ludeke (Black Forest) and John M. Vayhinger (Colorado Springs).

TEACHERS

Special Sessions are being planned just for you. See the information on the back cover of this Announcement!

Colorado Springs

At an elevation of 6,035 feet above sea level, Colorado Springs sits nestled in a valley at the foothills of Pike's Peak. The area is bordered by the majestic Rocky Mountains to the west, which rise abruptly to heights ranging from 10,000 to 14,000 feet. To the east, flat prairie lands, covered with tall grasses, accept the cool summer breeze and the light winter snow.

Founded in 1871 by General William Jackson Palmer, a master design of Colorado Springs included posh hotels and wide, tree-lined boulevards. Snow-crested Pike's Peak, the surrounding Rampart Range, bubbling natural springs, and the red sandstone formations known as the Garden of the Gods provided an ideal setting for a resort community. Mining and ranching took root as top industries during those early years. The railroad brought in more new business and for a short time the area was even the center of territorial legislative activity. But Palmer's dream of establishing an ideal vacation spot also flourished.

Home to everything from the Garden of the Gods to the U.S. Olympic Training Center, El Paso County offers a wide variety of man-made and natural attractions as well as the world famous14,110 foot Peak. You can enjoy nature at the Cheyenne Mountain Zoo with over 600 animals. Seven Falls offers beautiful scenery both night and day, or visit Cave of the Winds to see over twenty rooms filled with spectacular limestone formations. The Pikes Peak Cog Railway and Mt. Manitou Incline offer a unique ride and spectacular views. You can discover the heroes of the rodeo at the ProRodeo Hall of Fame, take a trip to the NorthPole/Santa's Workshop to meet old Saint Nick himself, or tour the United States Air Force Academy to see such unique landmarks as the chapel and planetarium. For a bit of history, visit Old Colorado City and Manitou Springs and enjoy unique shopping, or spend the evening at the Flying W Ranch for a chuckwagon dinner. Plan some extra time on your visit to "the Springs" to enjoy the many sights and activities available to you and your family.

The Colorado College is a small private college well-known for its excellence in education. It pioneered the concept of using "block" courses, concentrating full time for three or four weeks on a single subject. Its graduates are well-known in many fields.

University of Colorado at Colorado Springs has as its mission to emphasize quality teaching while encouraging research, creative work and service to the university and to the community. Founded 24 years ago, the University does not consider itself a traditional university. Faculty are dedicated to inspiring their students to make learning a lifetime pursuit, ensuring that the education they offer is applied to all areas of an individual's life. Their diverse blend of students ranges from 18-year-olds to senior citizens. The goal is to educate the younger, traditional student for a lifetime, and open the doors to older students so they may achieve their educational dreams; an education for generations.

Pikes Peak Community College was founded in 1967 when the Colorado General Assembly established it (then El Paso Community College) as a state educational institution under the control of the State Board for Community Colleges and Occupational Education. Classes began in September, 1969, in rented buildings adapted to the uses of the college. As enrollment grew, the General Assembly appropriated funds for construction of a permanent campus south of Colorado Springs on land which the federal government had deeded to the State of Colorado. Construction was completed in 1978, at the same time that the General Assembly changed the name to Pikes Peak Community College in recognition of its role in providing educational services beyond El Paso County.

U. S. Air Force Academy is one of Colorado's most visited attractions. The Visitor Center features exhibits of cadet life and Academy History. Visitors to the Academy may observe approximately 4,400 cadets marching to lunch, or visit the renowned architectural wonders of the Academy chapel. Academically, the Academy offers a wide scope of courses in the sciences as well as social sciences.

Registration

Registration will take place in the Second Floor Registration Area of the Embassy Suites Hotel, 7290 Commerce Center Drive in Colorado Springs. Registration will be open from 11:30 am to 5:00 pm on Wednesday, May 16, from 8:00 am to 4:00 pm on Thursday and Friday, May 17 and 18, and from 8:00 am to 10:00 am on Saturday, May 19.

All persons planning to attend the meeting are urged to preregister as soon as possible, using the Registration Form provided in the centerfold of this Announcement. The fee for advance registration is $26.00 for regular members, $16.00 for participating spouses, and $14.00 for students or their participating spouses. **After Friday, April 20, the registration fee is : Regular, $30.00 spouses, $18.00, and students and spouses, $18.00.** A special rate for K-14 teachers is $15.00; after April 20, it is $20.00 (see p. 12). Please mail the Registration Form with the appropriate payment to SWARM Division, AAAS, MEETINGS, Colorado Mountain College, 215 Ninth Street, Glenwood Springs, CO 81601. Your check must be made payable to SWARM Division, AAAS. Refunds, minus a service charge of $5.00, will be issued to those who find they cannot attend, and who request the refund in writing at the above address and postmarked on or before May 4, 1990.

Advance registrants may pick up their packets, which will contain the Proceedings (including Program and Abstracts), name tags, and special events tickets, at the Preregistration desk in the Registration Center, upon arrival at the Embassy Suites within the above hours. For those registering after May 4, packets will be available upon registration. **Tickets for the Thursday SWARM Division Luncheon must be purchased by 8:30 am on Wednesday, May 16: tickets for the Awards Banquet Friday evening must be purchased by noon on Thursday, May 17.** Advance reservations may be made by filling out the appropriate blank on the Registration Form.

SOUTHWESTERN AND ROCKY MOUNTAIN DIVISION, AAAS
66th Annual Meeting Colorado Springs, Colorado 16-19 May 1990

ABSTRACT FORM

Complete and return this Abstract Form no later than 30 November 1989. Please follow the directions for preparation of abstracts carefully; your typed original, which will not be edited except for length, will be our camera-ready copy. Also, please circulate this Announcement and Form or a copy thereof to your students and colleagues, who may not receive the announcement (sent to all AAAS members in the geographical SWARM Division and co-sponsoring societies). Additional copies are available from the Executive Director of SWARM Division at the address with the Directions.

Abstract submitted for the Hist.& Philo.of Science **Section/Symposium**
SWARM Division, AAAS, Annual Meeting

Name of Author (if Co-authors, please indicate presentor) John P. Colvis

Address 4978 South Hoyt Street, Littleton, Colorado 80123-1988

Telephone (303) 973-9687

Title of Paper THE QUANTUM PHILOSOPHY OF SCIENCE AND MATHEMATICS: INTRODUCTION

STUDENT PAPERS: To be judged for award _____yes ___X___no

Level: _____Undergraduate _____Masters _____Doctoral Faculty Sponsor: _____

Permanent address and telephone number of student: _____Telephone ( )_____

AV equipment required other than 2x2 projection or chalkboard (see No. 6, Instructions for Submitting Papers)

TYPE ABSTRACT HERE

THE QUANTUM PHILOSOPHY OF SCIENCE AND MATHEMATICS: INTRODUCTION. John P. Colvis, Martin Marietta Astronautics Group

Einstein's Second Postulate of Special Relativity concerning the speed of light is only one of a multitude of examples which appear to be the consequence of a unique, empirical, nonmathematizable proposition referred to as the quantum postulate. The Quantum Philosophy of Science & Mathematics is based upon this quantum postulate and constitutes a complete and verifiable logic-quantum synthesis. This revolutionary new foundation for all science and mathematics provides a principle of reasoning which accounts for and explains quantum phenomena, irreversibility, duality, and the structural requirements for ambiguity and relativity in general. Its associated quantum mathematics provides a proof that Fermat's Last Theorem is true, Goldbach's Conjecture is false, and that there are an infinite number of twin primes. Although such applications go beyond the scope of this introduction, which is primarily philosophical in nature, they are immediate consequences of the quantum postulate and the Quantum Philosophy of Science & Mathematics introduced in this presentation.

SOUTHWESTERN AND ROCKY MOUNTAIN DIVISION, AAAS

66th Annual Meeting Colorado Springs, Colorado 16-19 May 1990

ABSTRACT FORM

Complete and return this Abstract Form no later than 30 November 1989. Please follow the directions for preparation of abstracts carefully; your typed original, which will not be edited except for length, will be our camera-ready copy. Also, please circulate this Announcement and Form or a copy thereof to your students and colleagues, who may not receive the announcement (sent to all AAAS members in the geographical SWARM Division and co-sponsoring societies). Additional copies are available from the Executive Director of SWARM Division at the address with the Directions.

Abstract submitted for the General Poster Session **Section/Symposium**
SWARM Division, AAAS, Annual Meeting

Name of Author (if Co-authors, please indicate presentor) John P. Colvis

Address 4978 South Hoyt Street, Littleton, Colorado 80123-1988

Telephone (303) 973-9687

Title of ~~Paper~~ Poster THE QUANTUM POSTULATE

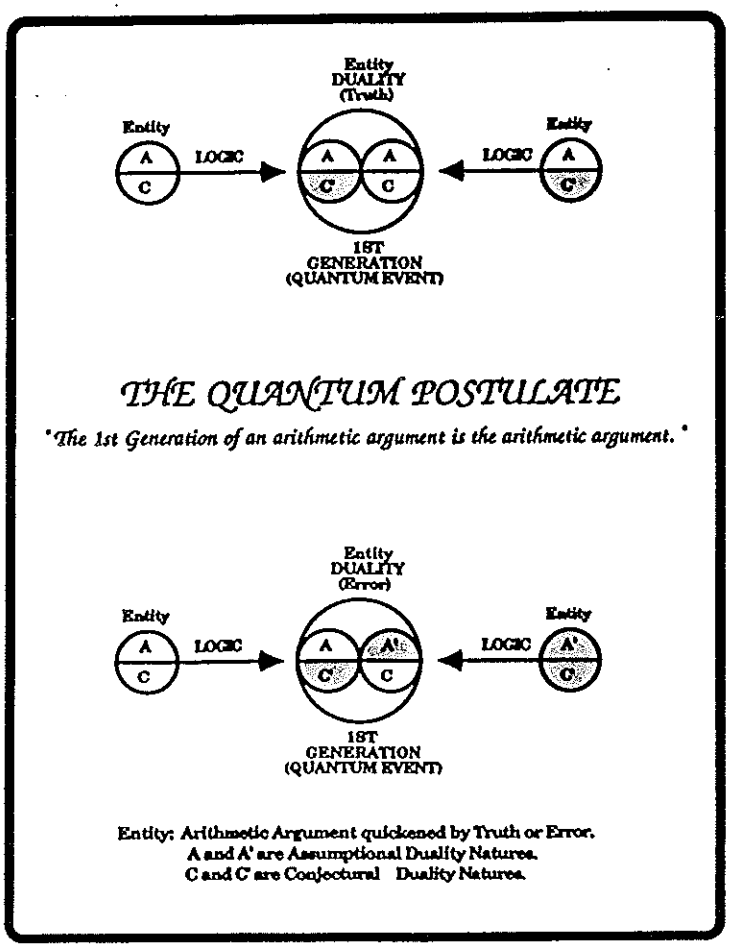
STUDENT PAPERS: To be judged for award _____yes ___X___no

Level: _____Undergraduate _____Masters _____Doctoral Faculty Sponsor: _____

Permanent address and telephone number of student: _____Telephone ( )_____

AV equipment required other than 2x2 projection or chalkboard (see No. 6, Instructions for Submitting Papers)

TYPE ABSTRACT HERE



An Introduction

to

THE QUANTUM PHILOSOPHY

of

SCIENCE & MATHEMATICS

(A complete and verifiable logic-quantum synthesis)

by

John P. Colvis

✡ † ✡

On the Occasion of the 66th Annual Meeting
of the
Southwestern & Rocky Mountain Division
of the
American Association for the Advancement of Science
Colorado Springs, Colorado
16 - 19 May 1990

Cover sheet for handout at General Poster Session

In searching for an answer, all of our arguments in mathematics, as well as in science, follow a sequence of substitutions. With that in mind, consider the following question.

Mathematical logic is so rigorous and so meticulous,
what would ever cause it to be satisfied with a substitute?

Substitution is successful the moment logic thinks the substitute has gone away when in fact it hasn't. This moment comes in the form of a quantum event caused by the quantum postulate. Notwithstanding, all substitutions are completed and irreversibly sealed by the quantum postulate with or without "success".