SPRING MEETING PROGRAM

ROCKY MOUNTAIN SECTION

MAA

UNITED STATES AIR FORCE ACADEMY

APRIL 27, 28, 1984
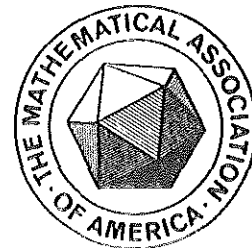
This year's meeting will begin at 12:40 on Friday, April 27 and will end on Saturday at 12:45. Please send in your registrations as soon as possible (registration fee: $5 faculty/$1 student), and indicate whether or not you will be attending the banquet at the Falcon Inn. Some details:

    a. Student papers will be presented on Friday afternoon. One year free membership in the MAA will be awarded to the top two presenters in each lectinar.

    b. Room reservations for the Falcon Inn can be made from outside Colorado through the True Value Inns' toll free number: 1-800-821-3068. In state, the correct number is 488-3010. The Falcon Inn is just off I-25, 8 miles north of the Academy's North Gate, 20 miles north of Colorado Springs in Monument, Colorado.

    c. The banquet will be buffet style:

        Four or more assorted salads, Jello molds
        Relish Tray
        Hot Vegetable & Potato

        Carved Round of Beef
        Baked Ham, Special Sauce
        Chicken Tetrazzini

        Dessert & Beverages

The cost of the banquet is $11.00 which includes tax and gratuity.

    d. The Academy will provide a bus and a tour guide for a one hour tour on Friday afternoon after the panel discussion.

    e. Two cadet formations are scheduled for Friday. At 12:00 the noon meal formation (4400 cadets march to Mitchell Hall), and at 4:20 the Retreat Ceremony can both be observed from the Chapel area. On Saturday, you can watch parachuting and soaring activities throughout the day at the airfield. (See map)

Once again, please send in registrations and banquet reservations as soon as possible to:

        Major George Hughes
        Program Chairman
        Dept of Mathematical Sciences
        United States Air Force Academy,
        Colorado Springs CO   80840

(Make checks payable to MAA.)

1984
ROCKY MOUNTAIN SECTION OF THE MATHEMATICAL ASSOCIATION OF AMERICA
UNITED STATES AIR FORCE ACADEMY
FRIDAY, APRIL 27

12:00-2:00   REGISTRATION   (3rd Floor, Fairchild Hall)
12:40-1:00   WELCOMING REMARKS   (Room H1)

Lectinar L1

1:10-1:25   *CRAIG STEINLEY, SDSM&T
"Where It's At, and The Faster Way to Get It: The Substring Search Problem"

1:25-1:40   *RICH LYMAN, SDSM&T
"An Undergraduate's Experience as a College Instructor"

1:40-1:55   *BORIS LERNER, University of Colorado, Boulder
"Application of Harmonic Analysis to Number Theory

Lectinar L1

2:00-2:15   *T. J. SAKULICH, US Air Force Academy
"A Summer of Applied Math with NASA"

2:15-2:30   *JAMES CHURCHILL, SDSM&T
"Trap Door Knapsacks in Public-Key to Cryptosystems"

2:30-2:50   RICHARD L. ROTH, University of Colorado, Boulder
"Symmetric Colorings vs. Color Groups"

Lectinar L2

1:10-1:20   *LOWELL SMYLIE, University of Wyoming
"On Unique Critical Points in the Plane"

1:20-1:40   *GENJI YOSHINO, University of Colorado, Boulder
"A Note on Approximation of n!"

1:40-1:55   *SHANE HUBLER, Colorado College
"Recursion Relations in Summation Formulas"

Lectinar L2

2:00-2:15   *CECILE DURAY-BITO, University of Colorado, Boulder
"Is Mathematical Thinking Artistic or Artistic Thinking Mathematical?"

2:15-2:30   *KENT D. CHOQUETTE, University of Colorado, Boulder
"Group Theory and Crystallography"

2:30-2:50   CHRISTOPHER BALTUS, University of Northern Colorado
"Rational Approximation, Continued Fractions, and Fixed Points"

3:00-3:50   Invited Address: (Room H1)   RON O. WELLS, Rice University
"Geometry and the Universe"

3:55-4:45   Panel Discussion: (Room H1)   "Discrete and Indiscrete Thoughts on the First Two Years"

Moderator: DAVID BALLEW, SDSM&T
Panelists: KAREN WHITEHEAD, SDSM&T
JOHN MAYBEE, University of Colorado, Boulder
RON PRATHER, Denver University

4:45-5:45   Tour of Academy Chapel, Mitchell Hall, and Arnold Hall

6:15-7:15   Social Hour, Falcon I Room of Falcon Inn (Cash Bar)

7:15-9:00   Banquet, Falcon Inn
Invited Address: LYNN ARTHUR STEEN, St. Olaf College
"1+1=0:   Learning Our Lesson from the New 'New Math'"

*Denotes Students

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ROCKY MOUNTAIN SECTION OF THE MATHEMATICAL ASSOCIATION OF AMERICA
UNITED STATES AIR FORCE ACADEMY
SATURDAY, APRIL 28

FAIRCHILD HALL

8:00-8:30   BUSINESS MEETING (Room H1)
8:30-9:15   Invited Address: (Room H1) LYNN ARTHUR STEEN, St. Olaf College
"Math and Computer Science: A Case Study in Marriage and Divorce"

Lectinar L1	Lectinar L2
9:25-9:45 RICHARD A. GIBBS, Fort Lewis College "The Bliss Principle"	**9:25-9:45** THOMAS E. KELLEY, Colorado School of Mines "Something Old"
9:45-10:05 BONNIE HENDRIKSON, SDSM&T "Making Sense Out of Dollars: A Study of Faculty Salaries at SDSM&T"	**9:45-10:05** *LLOYD BEST, Colorado School of Mines "Something New"
10:05-10:25 PAUL O'MEARA, University of Colorado at Denver "Necessary and Sufficient Conditions for Metrizability of C(X) With the Compact-Open Topology"	**10:05-10:25** JOHN PETRO, US Air Force Academy "Real Division Algebras of Dimension > 1 Contain ℂ"
10:30-11:15 Invited Address (Lectinar L1) "GENE ABRAMS, University of Colorado at Colorado Springs "A New Look at Sub-Rings"	**10:30-11:15** Invited Address (Lectinar L2) DEAN LUCAS, Chief Scientist, Interactive Systems "New Mathematical Techniques in Image Understanding"

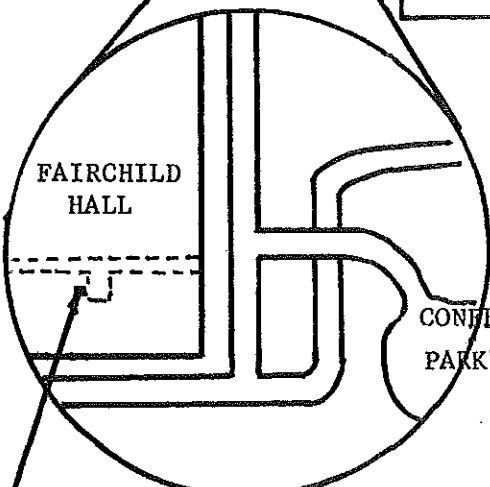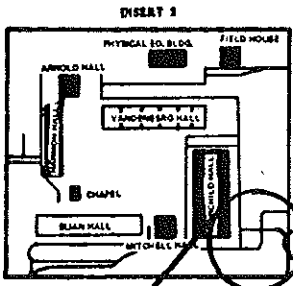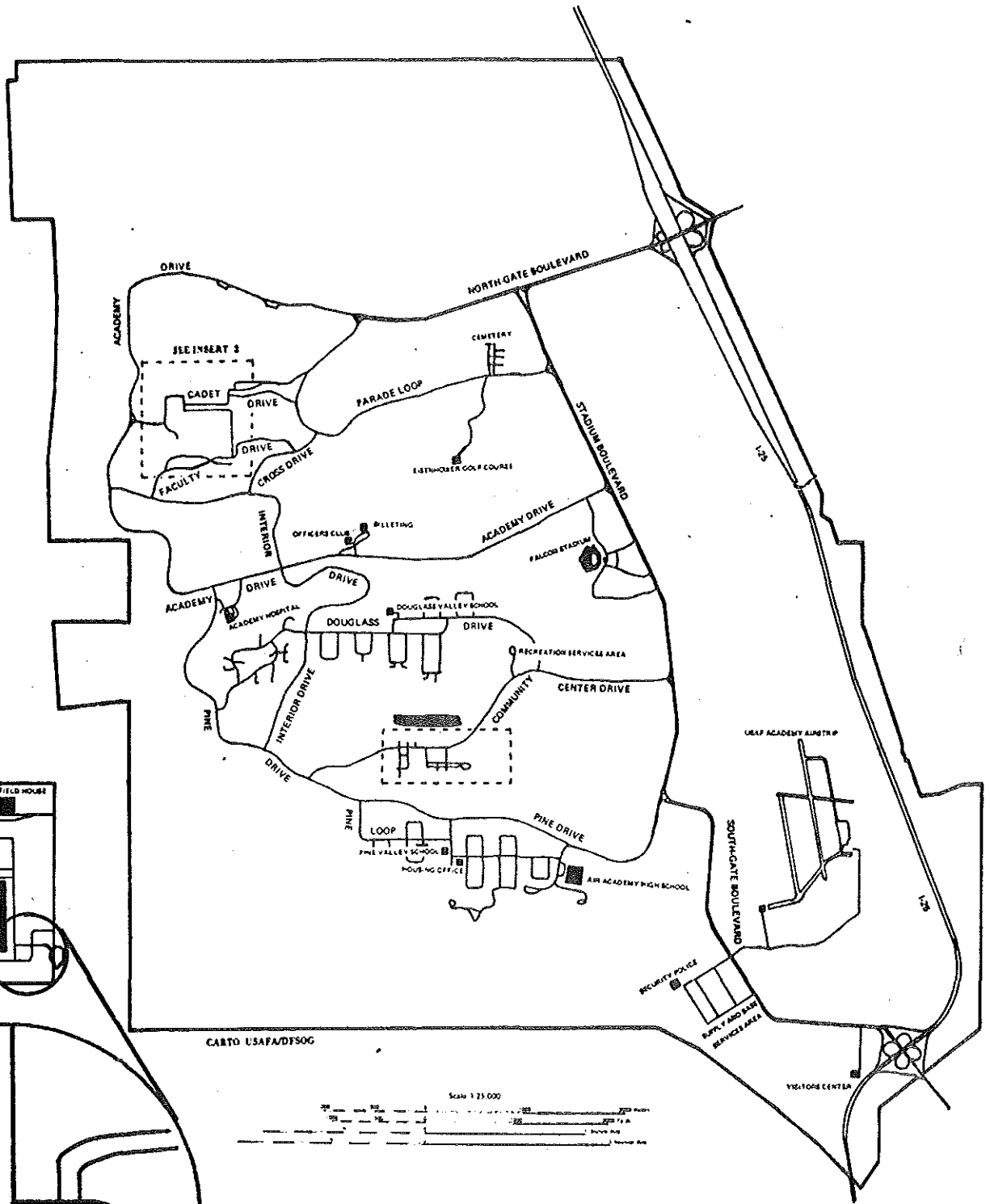| Lectinar L1	Lectinar L2
11:20-11:40 TERRY L. JENKINS, University of Wyoming "Programs for the Gifted and Talented"	**11:20-11:35** HUNG C. LI, University of Southern Colorado "Integral Solutions of the Gamma Equation $\Gamma(x) = \Gamma(y)\Gamma(z)$"
11:40-12:00 DAVID BALLEW, SDSM&T "How to Handle Large Classes"	**11:35-12:00** BOB TOLAR, University of Northern Colorado "Algorithms for Sorting"
12:05-12:45 Invited Address (Lectinar L1) IRA ROSENHOLTZ, University of Wyoming "Tackling a Ticklish Type of TIC-TAC-TOE (or The Case of the [Almost] Total Tactics): II"	**12:05-12:45** Report on MAA China Visit (Lectinar L2) JAMES C. DAVIS, Mesa College "My Impressions of Chinese Education"

*Denotes Students
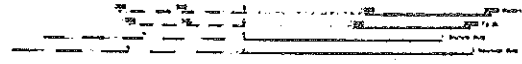
DRIVE

ACADEMY

NORTH-GATE BOULEVARD

SEE INSERT 2

CEMETERY

CADET

DRIVE

PARADE LOOP

DRIVE

FACULTY

CROSS DRIVE

EISENHOWER GOLF COURSE

STADIUM BOULEVARD

INTERIOR

OFFICERS CLUB   BILLETING

ACADEMY DRIVE

FALCON STADIUM

DRIVE

ACADEMY   DRIVE   DRIVE

ACADEMY HOSPITAL

DOUGLASS VALLEY SCHOOL

DOUGLASS   DRIVE

RECREATION SERVICES AREA

INTERIOR DRIVE

CENTER DRIVE

COMMUNITY

PINE

USAF ACADEMY AIRSTRIP

DRIVE

PINE   LOOP

PINE DRIVE

PINE VALLEY SCHOOL

HOUSING OFFICE

AIR ACADEMY HIGH SCHOOL

SOUTH-GATE BOULEVARD

I-25

SECURITY POLICE

SUPPLY AND BASE SERVICES AREA

VISITORS CENTER

CARTO USAFA/DFSOG

Scale 1:25,000

USAF Academy, CO

INSERT 2

PHYSICAL ED. BLDG.   FIELD HOUSE

ARNOLD HALL

VANDENBERG HALL

CHAPEL

SIJAN HALL   FAIRCHILD HALL

MITCHELL HALL

FAIRCHILD
HALL

CONFERENCE

PARKING

Take elevator to third floor conference area