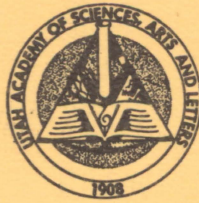


*H. J. Hall*

*3 presentations by H.J.H.*

**UTAH  
ACADEMY  
Sciences Arts Letters  
1908 – 1974**



**Fall Meetings  
Utah State University  
Logan, Utah**



SECTION MEETINGS

ARTS

Chairman: T. Leonard Rowley, Univ. Center 313

- 2:30 p.m. EONTA BY IANNIS XENAKIS: A STUDY OF MUSICAL FORM, Harrison Powley, Brigham Young University
- 2:45 p.m. APPROXIMATIONS TO THE SQUARE, Tracy Hall, Brigham Young University
- 3:00 p.m. AFFECTIVE PERCEPTION OF CERTAIN MUSICAL INTERVALS Daniel L. Martino, Weber State College

BIOLOGICAL SCIENCES I

Chairman: Russell D. Anderson, Univ. Center 225

- 2:30 p.m. PLANT COMMUNITIES OF THE SOUTHERN END OF SNOW CANYON, UTAH STATE PARK, Robert E. Coombs, Dixie College
- 2:40 p.m. REVISION OF THE GENUS GERANIUM IN UTAH, Glen T. Nebeker, Brigham Young University
- 2:50 p.m. PRELIMINARY TAXONOMIC STUDY OF RANUNCULUS IN UTAH, Margaret Doherty, Brigham Young University
- 3:00 p.m. REVISION OF THE GENUS GENTIANELLA IN UTAH, Kelly Alfred, Brigham Young University
- 3:15 p.m. THE GREEN AND BLUE-GREEN ALGAE OF UTAH LAKE, Mark C. Whiting, Larry L. St. Clair and Thomas A. Leslie, Brigham Young University
- 3:30 p.m. THE DIATOM FLORA OF UTAH LAKE, Thomas A. Leslie, Larry L. St. Clair and Mark C. Whiting, Brigham Young University
- 3:45 p.m. THE ALGAL STANDING CROP OF UTAH LAKE, Larry L. St. Clair, Thomas A. Leslie and Mark C. Whiting, Brigham Young University

- 4:00 p.m. A PRELIMINARY STUDY OF THE ZOOPLANKTON OF UTAH LAKE, Karen A. Roberts, Boyd J. Hanson, and Thomas W. Toole, Brigham Young University
- 4:15 p.m. THE USE OF REMOTE SENSING IN STUDYING THE PLANKTON OF UTAH LAKE, Boyd J. Hansen, Brigham Young University
- 4:30 p.m. THREE NEW SPECIES OF DIATOMS FROM THE HANGING GARDENS OF GLEN CANYON, UTAH, Richard L. Clark, and Samuel R. Rushforth, Brigham Young University
- 4:45 p.m. THE ALGAL FLORA OF ROCK CREEK, UTAH, David C. Anderson, Brigham Young University
- 5:00 p.m. THE DIATOMS OF TWO HANGING GARDENS IN SOUTHEASTERN UTAH, Kaye H. Thorne, Larry L. St. Clair, Thomas A. Leslie, David C. Anderson and Samuel R. Rushforth, Brigham Young Univ.

BIOLOGICAL SCIENCES II

Chairman: Donald Davis University Center 327

- 2:30 p.m. FATE OF DI-2-ETHYLHEXYL PHTHALATE IN DEER MICE P. Barney and G. Booth, Brigham Young U.
- 2:45 p.m. FLUCTUATING LEVELS OF THE GREAT SALT LAKE AND EFFECTS ON WILDLIFE, Fritz Knapf, Utah St. U.
- 3:00 p.m. LIVER PATHOLOGY PRODUCED BY TAENIA PISIFORMIS CYSTICERCI AND AS A POSSIBLE FACTOR IN POPULATION CYCLES OF JACKRABBITS IN THE KAIPAROWITS AREA OF SOUTHERN UTAH, Arthur O. Chapman, Brigham Young University
- 3:15 p.m. THE SIGNIFICANCE OF CARBARYL-PIPERONYL BUTOXIDE SYNERGIST DATA IN ALFALFA LEAFCUTTING BEES, William A. Brindley, Utah State University
- 3:30 p.m. THE POPULATION DYNAMICS OF TANYPUS STELLATUS (DIPTERA: CHIRONOMIDAE) IN GOSHEN BAY, UTAH LAKE, D. K. Shiozawa and J.R. Barnes, Brigham Young University



3:30 p.m. RECORDING AGGRESSION IN PIGEONS, Phillip Muller and Carl Cheney, Utah State University

3:45 p.m. CONCURRENT CONDITIONED REINFORCEMENT SCHEDULES, Peter Killeen and Bruce A. Wald, Utah State University

3:55 p.m. INFLUENCE OF ENVIRONMENT ON ZINC AND CHROMIUM STATUS IN DIABETICS AND NON-DIABETICS IN UTAH Carol H. Williams, D. G. Hendricks, and W. W. Mahoney, Utah State University

4:10 p.m. SCHEDULE INDUCED POLYDIPSIA UNDER RANDOM PRESENTATION OF A FIXED INTERVAL SCHEDULE, Roger Lubeck, Phillip Muller, and Carl Cheney, Utah State University

4:20 p.m. A COMPARISON OF AN IN VIVO AND IN VITRO DRY MATTER DIGESTABILITY IN WHITE-TAILED DEER, Leonard Ruggiero, Utah State University

4:35 p.m. KESTRAL RESPONSES TO PREY ASSOCIATED FACTORS, Leonard Ruggiero, Utah State University

LETTERS I PHILOSOPHY

Chairman: Noel B. Reynolds - Merrill Library 458

2:30 - ACTION AND IDENTITY

3:45 p.m.

LETTERS II LITERATURE

Chairman: John B. Harris - Merrill Library 460

2:30 - THE SERIOUSNESS OF HUMOR: COMEDY AS COMMENT  
3:45 p.m. AND REVELATION IN LITERATURE

LETTERS III LITERATURE

Chairman: Heinze Rahde - Merrill Library 458

3:45 - THE GROTESQUE AND THE ABSURD  
5:00 p.m.

LETTERS IV COMMUNICATIONS

Chairman: Halbert Greaves Merrill Library 460

3:45 - RACISM AND SEXISM: RHETORICAL STRATEGIES  
5:00 p.m.

PHYSICAL SCIENCES I

Chairman: John S. Cannon Univ. Center 329

2:30 p.m. ON PROPOSED MODELS FOR THE INTERACTION OF THE MAGNETIZED SOLAR WIND WITH THE GEO-MAGNETIC FIELD: THE EFFECTS OF TIME SMOOTHING, John G. Melville and Douglas E. Jones, Brigham Young University

2:40 p.m. OBSERVED DEPARTURES FROM SPHERICAL SYMMETRY OF THE MICROWAVE ABSORBING CLOUD LAYER IN THE ATMOSPHERE OF VENUS: MARINER II, Douglas E. Jones, Brigham Young University

2:50 p.m. Discussion

2:55 p.m. INERTIAL EFFECTS IN A NEW THEORY OF INTERACTIONS, W. Farrell Edwards, Utah State University

3:10 p.m. Discussion

3:15 p.m. THE COULOMB GAUGE IN ELECTRO-MAGNETIC THEORY AND ITS RELATIONS TO KIRCHHOFF'S LAWS AND TO DISPLACEMENT CURRENTS IN CIRCUIT THEORY, Everett G. Larson, Brigham Young University

3:30 p.m. Discussion

3:35 p.m. ENERGY PRINCIPLE ANALYSIS OF THE TOPOLOTRON, R. W. Bass, Brigham Young University

3:50 p.m. Discussion

3:55 p.m. SQUARE/RECTANGLE LIKENESS, H. Tracy Hall, Brigham Young University

4:10 p.m. Discussion



- 4:15 p.m. RECENT SYNTHESIS AT HIGH PRESSURE/TEMPERATURE  
H. Tracy Hall, Brigham Young University
- 4:30 p.m. EFFECT OF HIGH PRESSURE ON THE CRYSTAL  
STRUCTURES OF THE LANTHANIDE TRIALUMINIDES,  
John S. Cannon and H. Tracy Hall, Brigham  
Young University

4:45 p.m. Discussion

### PHYSICAL SCIENCES II

Chairman: N. Kent Dalley Univ. Center 333

- 2:30 p.m. CONFORMATIONAL CHANGES WHICH OCCUR IN  
CYCLIC POLYETHERS ON METAL COMPLEXATION,  
N. Kent Dalley, Brigham Young University
- 2:45 p.m. THE CRYSTAL STRUCTURE OF THREE CYCLIC  
THIAETHER, Steven B. Larson and N. Kent  
Dalley, Brigham Young University
- 3:00 p.m. Discussion
- 3:05 p.m. THE SYNTHESIS OF THIA-CROWN-7 AND 8 COM-  
pounds, Robert A. Reeder, Jerald S. Brad-  
shaw, Reed M. Izatt, and James J. Christ-  
ensen, Brigham Young University
- 3:15 p.m. Discussion
- 3:20 p.m. SYNTHESIS OF PEPTIDES CONTAINING DEHYDRO-  
ALANINE, H. Srinivasan and Richard K.  
Olsen, Utah State University
- 3:35 p.m. SYNTHESIS OF A DEPSIPEPTIDE, LACTONE RE-  
LATED TO THE QUINOXALINE ANTIBIOTICS,  
Wen-Yih Chen, Ming-Li Hsu, and Richard K.  
Olsen, Utah State University
- 3:40 p.m. Discussion
- 3:45 p.m. THE PHOTOCHEMISTRY OF HETEROCYCLIC COM-  
POUNDS, John T. Carlock, Wesley Zmolek, and  
Jerald S. Bradshaw, Brigham Young Univ.
- 3:50 p.m. Discussion

3:55 p.m. THE REACTION OF HBr WITH ALLYL-DIFLUOROPHOS-  
PHINE, J. G. Morse, K. W. Morse, and E. R.  
Salardeau, Utah State University

4:05 p.m. Discussion

4:25 p.m. A STUDY OF AIR PARTICULATES IN THE GRANITE  
MOUNTAIN VAULT, Wayne H. Cannon, N.S.  
Mangelson, E. D. Flanders, and J. S. Brad-  
shaw, Brigham Young University

4:35 p.m. A STUDY OF OZONE LEVELS IN THE GRANITE  
MOUNTAIN VAULT, Steven R. Goates, J. S.  
Bradshaw, and N. S. Mangelson, Brigham Young  
University

4:45 p.m. Discussion

4:50 p.m. DETERMINATION OF CHROMIUM IN BIOLOGICAL  
MATERIALS, P. Hearty, J. J. Christensen, and  
R. M. Izatt, Brigham Young University

5:00 p.m. DETERMINATION OF CHROMIUM IN HUMAN TISSUE,  
L. Hansen, R. M. Izatt, and J. J. Christensen,  
Brigham Young University

5:10 p.m. Discussion

### SOCIAL SCIENCES I

Chairman: Alton B. Davis Widtsoe Hall 205

- 2:30 p.m. THE SOCIO-ECONOMIC IMPACTS OF ENERGY  
DEVELOPMENT OF THE STATE OF UTAH  
Discussants: Glen P. Willardson, Gar-Kane  
Power Company; John P. Nelson, Call Engineering  
Company; Kenneth L. Gray, Bureau of Land  
Management; Stan L. Albrecht, Brigham Young  
University; and William G. Bruhm, Assistant to  
Governor and Executive Director of Department of  
Community Relations for the State of Utah.