



was the first project to receive operational support from the NCAR Research Aviation Facility. Doyne and Paul Eden worked with the aviation people to fit our brand-new Queen Air with probes and antennas that Paul designed and built to measure radio noise and temperature as the aircraft flew in a butterfly-shaped pattern around cumulus clouds.

In the photograph above, Louis Breyfogle is adjusting an antenna that he recently assembled to observe radio noise from thunderstorms. He put it together from four off-the-shelf communications antennas, and installed it on the roof of the east tower penthouse of the Mesa Laboratory. The antenna is fitted out with electric motors which rotate it both horizontally and vertically to make a series of scans across a cloud at different levels. Louis hopes that this will permit him to localize the sources of radio noise of different intensities within the cloud. These measurements, synchronized with electric-field measurements and time-lapse movies of cloud growth, should provide valuable information about the sources and distribution of electricity in convective clouds and thunderstorms.

* * *

Dr. Walter Orr Roberts will give the first in a series of four lectures to be presented in connection with the interim meetings of the International Radio Consultative Committee, now in progress in Boulder. Dr. Roberts will speak on "The Mastery of our Atmosphere" at 8:00 pm on Monday, July 15, in Room 140 of the CU Chemistry Building. The public is invited.



Ed Crankshaw, captain of the NCAR No. 1 Bowling Team, presents the first-place trophy won by the team in the Boulder City Tournament to Dr. John W. Firor, director of NCAR.

New Staff Members

<u>Name</u>	<u>Position</u>	<u>Div.</u>	<u>Came From</u>
Terry L. Adams	Clerk	ADM	Walgreens Drug
Matthew W. Bell	Clerk	ADM	Sportsman's Inn
John B. Dee, Jr.	Adm. Assistant	FAL	Air Weather Service, USAF
Robert E. Dickinson	Scientist	LAS	MIT
Ronald L. Drake	Scientist	LAS	Drexel Institute of Technology
Gary P. Emerson	Observer	FAL	Denver Planetarium
Geraldine K. Miller	Secretary	ADM	FMC Corporation
William H. Ragland	Technician	FAL	CU, Student
Gerald G. Reichenider	Engineer	FAL	Geotech
F. Ann Sheehan	Secretary	FAL	FMC Corporation
Janet K. Zorn	Secretary	RSG	University of Colorado
Rita M. Rikoff	Clerk	ADM	Fitzsimmons General Hospital

Departures

Maxine F. Ross	May 15	Robert F. Wilson	May 31
Howard K. Hull	May 15	Jesus Martinez	May 31
Nicholas L. Perry	May 31	Darlene J. Walters	June 5
Valerie Flick	May 17	Rosemary M. Woods	June 7
Patricia A. Colontino	May 31	Chester Davis	June 9
Carol S. Forney	May 28	Harold Baker	June 7
Mary E. Pook	May 28		

Calendar Notes

July 15 thru 19, 1968

MONDAY, July 15

- Special Seminar -- The Effects of Electrical Fields on the Nucleation of Ice from Supercooled Water, Dr. Maul Roulleau, State University of New York.

1:30 p.m.

NCAR Mesa Laboratory, Seminar Room

TUESDAY, July 16

- Special Seminar -- Air Flow in the Lee of the Mountains, Dr. Berislav Makjanic, University of Zagreb, Zagreb, Yugoslavia.

11:00 a.m.

NCAR Mesa Laboratory, Seminar Room

Mesa Chowder and Molecule Society will not be held this week.

- Special Movie -- Water Conservation Through Evaporation Reduction, Bureau of Reclamation/ESSA film with script preparation by Stan Ruttenberg. Color. 23 minutes.

12:20 p.m. and 1:30 p.m.

NCAR Mesa Laboratory, Seminar Room

WEDNESDAY, July 17

- Special Seminar -- Small Scale Turbulence Produced by Rain Drops, Professor Roland List, University of Toronto.

11:00 a.m.

NCAR Mesa Laboratory, Seminar Room

THURSDAY, July 18

- Special LAS Seminar -- Double Kelvin Waves, Professor M. S. Longuet-Higgins, Oregon State University.

11:00 a.m.

NCAR Mesa Laboratory, Seminar Room

- Noon Movie -- The Romantic Road. A colorful bus tour along the 227-mile sightseeing route, from the Main River to the Alps in Southern Germany. Color. 26 minutes.

12:20 p.m.

NCAR Mesa Laboratory, Seminar Room

FRIDAY, July 19

- Noon Movie -- The Romantic Road. Color. 26 minutes.

12:10 p.m.
HAO/AG Classroom 138

- Chuckwagon Dinner -- For all NCAR Staff members and their families, hosted by the NCAR Wives. Meal prepared and served by the Boulder Jaycees. Make reservations through Randi Opsahl, ext. 266.

6:30 p.m.
NCAR Mesa Laboratory, Tree Terrace

Visitors

Coming: Dr. Maul Roulleau, State University of New York,
July 15 - 16.
-- Guy G. Goyer

Dr. Ian W. Roxburgh, Queen Mary College, London,
England, July 15 - August 15.
-- Gordon Newkirk

Professor Ryozauro Yamamoto, Meteorological Research
Institute, Kyoto University, Kyoto, Japan, July 18.
-- W. W. Kellogg

Professor M. S. Longuet-Higgins, Department of Oceanography,
Oregon State University, July 15 - 19.
-- J. J. O'Brien

NCAR

CAFETERIA MENU

LUNCHEON - Includes: Entree, Vegetable, Potato, Bread and Butter

ALACARTE

MONDAY, July 15

Soup: Cream of Potato 15¢

- Hand Carved: Corned Beef 55¢ 80¢
- Braised Short Ribs of Choice Beef 50¢ 75¢
- Scalloped Ham and Potatoes 45¢ 70¢

TUESDAY, July 16

Soup: Vegetable Beef 15¢

- Hand Carved: Broiled Flank Steak 55¢ 80¢
- Swedish Meatballs and Noodles in Sour Cream Gravy 45¢ 70¢
- Baked Beef Lasagna 45¢ 70¢

WEDNESDAY, July 17

Soup: Cream of Chicken 15¢

- Hand Carved: Baked Ham 55¢ 80¢

* Complete Luncheon:

Sauerbraten with Sweet and Sour Red Cabbage \$1.00
 Parsley Potato Incl.
 Tossed Green Salad Tax
 Roll and Butter
 Boiled Custard Pudding
 Coffee or Tea

- Grilled Link Sausages and Beans Baked in Cream 45¢ 70¢

THURSDAY, July 18

Soup: Lima Bean with Ham 15¢

- Hand Carved: Roast Loin of Pork 55¢ 80¢

* Picnic Special: Cold Plate

Swiss Cheese, Salami, Liver Cheese 65¢
 Cold Baked Beans, Potato Salad
 Tomato Slice - Black Olives
 Roll and Butter
 Chocolate Sheet Cake
 Coffee, Tea or Iced Tea

- Plantation Chicken Shortcake on Cornbread 45¢ 70¢

SANDWICHES 25¢ to 55¢

SALADS 15¢ to 35¢

SIDE ORDERS

Vegetable or Potato 15¢
 Bread and Butter 5¢

DESSERTS 10¢ to 25¢

Cake Pie Ice Cream
 Puddings & Cobblers

BEVERAGES 10¢

Coffee, Tea, Milk
 Hot Chocolate
 Refill Coffee No Charge

CAFETERIA OPEN
 7:30 AM

CONTINENTAL BREAKFAST

Donut 10¢ Danish Roll 15¢
 Fruit Juices 15¢
 Toast & Butter 10¢

Fresh or Preserved Fruit
 15¢ to 25¢

Cereal with Milk 25¢
 1 Egg 20¢ 2 Eggs 35¢
 Bacon 35¢
 Ham 45¢

NCAR

CAFETERIA MENU

Page 2

LUNCHEON - Includes: Entree,
Vegetable, Potato, Bread and Butter

ALACARTE

FRIDAY, July 19

Soup: Clam Chowder	15¢	
• Hand Carved: Roast Breast of Turkey	55¢	80¢
• Mulligan Beef Stew with Vegetables	50¢	75¢
• Shrimp and Rice	45¢	70¢
• Creamy Baked Macaroni and Cheese	40¢	70¢

SANDWICHES 25¢ to 55¢

SALADS 15¢ to 35¢

SIDE ORDERS

Vegetable or Potato 15¢
Bread and Butter 5¢

DESSERTS 10¢ to 25¢

Cake Pie Ice Cream
Puddings & Cobblers

BEVERAGES 10¢

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