

Universe

Planetarium explores space wonders

By DAVID JARRETT
DTH Staff Writer

In 1930, John Motley Morehead, grandson of a North Carolina governor and at the time U.S. minister to Sweden, saw a scientific marvel.

The International Exposition in Stockholm was exhibiting a planetarium, one of 27 made by the Zeiss Optical Company between August 1924 and World War II. Morehead wanted to give one to the University and the state that he loved.

There were only five planetaria in the nation at the time. None were in the South, on university campuses, nor outside large cities.

But in 1947, Morehead made the down payment on one, the beginning of a \$3 million investment.

And in the generation since then, about 3 million people, many thousands of them North Carolina schoolchildren, have seen the image of the night sky projected on the Morehead Planetarium's dome.

"It's unlike anything you can experience anywhere on God's earth," says

Tony Jenzano, director of the planetarium since 1951.

Students can explore the wonders of the universe in the planetarium's current show, "Stonehenge Encounter." The show examines theories suggesting that the great stone ring on Salisbury Plain, England, was an ancient astronomical observatory.

"Stonehenge Encounter" is shown at 8 p.m. weeknights, 11 a.m. and 1, 3 and 8 p.m. Saturdays, and 3 and 8 p.m. Sundays. Admission is \$2 for students, \$2.75 for other adults and \$1.35 for children under 12.

But it hasn't always been that way.

When the planetarium opened in May 1949, admission was 38 cents for adults, 18 cents for children and charged reluctantly, only because officials decided at the outset that the planetarium would be self-supporting.

That status needs to change, Jenzano said.

"We have always operated on the threshold of bankruptcy," he said. "It's made us lean and strong."

"(But) any serious cutback ... is going to become visible" in the quality of Morehead Planetarium programs, he said.

The problem is that rising costs exert pressure against a basic planetarium goal: to keep its programs affordable to all North Carolinians. Ticket receipts and services now cover only 80 to 85 percent of the planetarium's costs while ticket sales covered them all for the first 20 years, Jenzano said.

The N.C. General Assembly will have an opportunity in November to make a special appropriation to the planetarium to keep its programming standards as they are.

Those standards are high, Jenzano said. "Without reservation, our programming is as good, if not better, than any planetarium in the world."

Quality programs take months of planning by senior officials, technicians and graphics specialists. The same care and planning has marked the planetarium's operation from the beginning.

In January 1949, for instance, a team of scientists including Roy K. Marshall, first director of the planetarium, and Jenzano, then Marshall's chief technician, worked in a basement room of Woolen Gym to put the projector together. It had arrived earlier in 14 crates, one of which was so large that a window of the gymnasium had to be removed to let it in.

Assembly of the major parts took 17 hours, a remarkably short time, but the minor adjustments needed to get the machine in top working order took far longer.

Then in May 1949, the facility built to house the planetarium was finished. It was designed by the firm of Eggers Higgins and New York, architects also for the Jefferson Memorial and the National Archives building in Washington, D.C. J.A. Jones Construction of Charlotte built the facility.

The exterior is beautiful and distinctive, possibly most so for the use of 44 shades of James River Colonial hand-made brick, its clean lines and its stately columns.



Domed room with console and projector provides seating for 450 ... several shows each year entertain and educate thousands

Inside is the rotunda, a 16-sided room that houses part of the famed Morehead art collection. The room includes 16 columns of Green Ozark Mountain marble, each one cut from a single stone.

Also inside is a Copernican Orrery, a 35-foot walk-in moving scale model of the solar system showing the sun and the six closest planets. When built, it was only one of two in the world.

These facilities were dedicated May 11, 1949, and people clearly liked the new planetarium. More than 180,000 people visited it the first year, including 32,000 high school students.

The warm reception wasn't completely expected, Jenzano said. "At the beginning of construction, there was some controversy about how Mr. Morehead could spend his money 'more wisely' than to build a planetarium," Jenzano said. "It

was obvious people didn't know what a planetarium was."

As the planetarium grew more popular, several improvements were made. Two modifications of the projection system, in 1959 and 1963, provided clearer definition of images and more special effects.

But the largest additions came later. In 1969, the latest Zeiss projector was installed — at a cost of a quarter-million dollars. And in 1971, the wing of the building that faces the arboretum was finished. It includes a telescope, ballroom, kitchen, guest rooms and lounge and the Morehead Foundation offices.

Perhaps the most noticeable service the planetarium has performed, besides introducing North Carolina to the wonders of astronomy, has been its role in training U.S. astronauts. American space travelers from John Glenn to those soon to leave

on space shuttle flights have learned to orient themselves in space through courses and lectures there.

But the main goal of the Morehead Planetarium has not changed from the early years in the late 1940s. "The planetarium serves the purpose of introducing and inspiring people in the study and advancement of astronomy and related sciences," said Jenzano, who calls a visit to the planetarium "an instant education" in the universe.

The planetarium seeks to provide that education — by entertaining — especially to University students. "We consider the student population a part of the family ... a high priority" in programming, Jenzano said.

For the people of North Carolina and the nation's oldest state university, the Morehead Planetarium's service — and John Motley Morehead's legacy — lives on.

Molly Maguire's Restaurant and Pub

Featuring: deli sandwiches, homemade soups, stuffed spuds and introducing ...
"HOTSTUFF" — chili, gumbo and shrimp creole

Lower Level — NCNB Plaza 942-4668
Open: M-F 11:30 am-1:00 am
Sat 5:30 am-1:00 am



Welcome

We're glad you've decided to spend part of your day with us.

Soups <i>Renowned Onion Soup</i>	Our Specialty French onion with melted cheese, simmered in sherry served in a crock with croutons! .50	Soup of the day 95
Salads <i>Yosh, they're so big!</i>	White Horse Special loaded with garden-fresh lettuce, tomatoes, mushrooms, green peppers, black olives, onions and topped off with roast beef, turkey, ham and Swiss cheese. Served with your choice of house dressings...Large.....3.85 Small.....2.75 Magie Mushroom Salad marinated button mushrooms served on a bed of lettuce...delightful 1.95	Tossed Garden Salad with Cheese 1.80 Tossed Garden Salad 95 Spinach Salad Fresh spinach, mushrooms, tomatoes, red onions and boiled egg slices...served with croutons and choice of house dressings...2.85
Quiche <i>We make 'em fresh!</i>	From the family recipes of a highly honored White Horse Chef, we prepare and bake fresh daily two vegetable and one seafood quiche, served with seasonal fruit.	Quiche of the day 2.85
Potpourri Platters <i>Unique</i>	<i>Goodies vary from time to time but we try to keep fresh</i> lettuce, tomatoes, onions, marinated mushrooms, alfalfa sprouts, fresh fruits, avocado slices, cheese, asparagus spears and pickles and peppers.	Our specialty Chunky Chicken salad (plump turkey incognito) pure breast of turkey, marinated with our special seasoning.....3.95 Pick Till You Win Your choice of any three deli items listed in the daily deli.....3.95
Sassy Sandwiches <i>Built Our Reputation</i>	Mitty Gritty Grinder The Great White Horse's claim to fame - The Original - an Italian loaf stuffed with choice roast beef, assorted goodies and cheese - served hot au jus.....3.85 The Rubie Flowers Original Recipe Open Face Meatball Sandwich Rubie's own tender meatballs simmered in a secret, succulent sauce, served on a fresh baked and buttered Italian roll with melted provolone cheese.....3.95 Charlie O'Tuna Casserole for the seafood connoisseur, a sumptuous open face tuna sandwich, baked on a buttered roll, with a special blend of sauces, homemade tuna salad, melted cheese and mushrooms.....3.95 Charlie O'Chicken Heavenly Casserole First cousin to the renowned O'Tuna...but prepared with chunks of breast of turkey, asparagus spears, melted cheese and mushrooms...A culinary adventure.....3.95 Hard-To-Handle Hamlo stuffed with rare roast beef, lettuce and tomatoes, provolone cheese, onions, spices, mild Italian peppers, and the world-famous hard-to-handle sauce.....3.75	The Great Speckled Bird Out of the pages of yesteryear rise the golden wings of the Great Speckled Bird...pure breast of turkey filled with chunks of fresh celery, mushrooms, and tomatoes. Covered in a blanket of mustard cheese and served hot in an Italian loaf with its faithful companion... French Potage.....3.75 Having Ralph's Reunion corned beef, barrel kraut, Swiss cheese, seasoned with our unique blend of spices... served hot on rye with kosher pickle and chips or German Potato salad.....3.95 The Noel Thomas Experience! Hot pastrami & melted Swiss served on a garlic buttered fresh baked Italian loaf, with lettuce and tomato... topped off with mild Italian peppers and oil & vinegar dressing. Zingy!!!.....3.25 Genoa Express same trimmings as the Hard-to-Handle, but with Danish ham and Genoa salami... a true international favorite.....3.85
Spuds & Casseroles <i>"Better be Hungry!"</i>	The Orville Bean Flying Machine Ground beef onions, mushrooms, sour cream, cheeses, bacon bits, chives & secret spices.....3.85 petite 2.75 The Blue Max Roast beef, onions, green peppers, mushrooms, sour cream, cheeses, bacon bits, chives & secret spices.....3.85 petite 2.75 The Red Baron The Original Spud Reuben...special sauce, corned beef, sauerkraut, sour cream, cheeses, bacon bits, and not so secret spices.....3.85 petite 2.75 The Wright-On Brothers Ham it up with the groovy Wright-On Brothers. Smoked ham, spices, onions, cheeses, sour cream, bacon bits and chives...Right-on.....3.85 petite 2.75	The Screaming Mimi Fly our vegetarian spud...sprouts, fresh mushrooms, onions, tomatoes, black olives, sour cream, cheeses, bacon bits, chives and spices.....3.50 petite 2.50 The Bronze Bird Plump boneless chicken breast cooked in wine and butter, served over wild rice, with fresh mushrooms and bearnaise sauce. How brazen!.....single breaded 3.25 double breaded 4.25 Brossel Casserole Fresh broccoli cooked in wine and butter served over wild rice with cheddar cheese, mushrooms & chives.....3.75
Pizza <i>Best in town</i> <i>The White Horse presents its own Sicilian sensation!</i>	Big Sponsors Special for high rollers only... everything laid on heavy..... Regular.....6.50 Large.....9.00 White Horse Express for our vegetarian friends, all of the below garden items..... Regular.....5.50 Large.....7.00 Peter Piper's Pickle Patch Pizza the pizza nightmares are made off! Genoa salami, Regular.....5.25 onions, and lots of real kosher pickle!.....Large.....6.75 Cheese Pizza Regular.....4.00 Large.....5.25 Choice of additional toppings: onions, greenpepper, black olives, mushrooms, kosher pickles, Italian pepper, pepperoni, ground beef, Italian sausage, ham, tomatoes. Regular......65 Large......95	
Cheese Etc. <i>Why Not</i>	After 5 pm Only Assorted Cheese. Served with fresh fruit, pickles and peppers and a loaf of garlic bread au jus.	Cheese plate for One or Two3.25 Cheese plate for Two or more4.50
Munchies & Desserts <i>Let's go for it!</i>	Carrot Cake95 Chocolateclair fondled with whipped cream and topped with a pretty red cherry.....95 Cheese Cake with fruit.....1.50 plain.....1.25 Loaf of fresh baked garlic bread au jus.....95	Chips with our homemade dip.....95 Chips Plain75 Mild Italian Peppers75 Kosher Pickles75
Any Day Eggs <i>No visitors here.</i>	Mitty Gritty Eggs Sour dough muffins with smoked ham, topped with poached eggs smothered with our own Hollandaise sauce...Baked in a casserole, garnished with fresh button mushrooms and black olives.....3.50 Bonadict Arnold (Created in honour of our nation's original turkey). Sour dough muffins topped with pure breast of turkey, poached egg and asparagus spears baked off with Hollandaise sauce...Yummy.....3.50 Eggs Sur-doo Creamed spinach, artichoke hearts, poached eggs and our special happy Hollandaise sauce...3.75	Artichoke Annie Baked eggs in a delicately blended cheese and sherry wine sauce, artichoke hearts, covered with colby cheddar cheese, fresh mushrooms and black olives, baked in a casserole dish...eat your hearts out!.....3.75 Dessert Croques Always Strawberries in sour cream, other seasonal fruit when available.....1.25

Open 11:30 to 12:00 7 days a week. Located at 1301 E. Franklin St. next door to the Car Shop 942-1423
All menu items served 11:30 'til closing



The Bottom Line takes a lighter look at the news. Look for it every Tuesday and Thursday on the editorial page of *The Daily Tar Heel*.

STRING FEVER ALL STRINGS AT 1/2 PRICE



AREA'S LEADING WASHBURN DEALER
Guitar, Harmonica, Woodwinds, Percussion Lessons
Buy, Sell, Trade, Consign New & Used Instruments
Contemporary, Classical & Jazz Sheet Music, Books, Methods and Records
Fully Equipped Repair Shop
320 W. Franklin St. Chapel Hill 942-8718