



BROOKHAVEN BULLETIN

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20th Century Lancelot Dreams Of Yesteryear

Is it too far fetched to imagine a medieval man, in armor, practicing fighting techniques of the Middle Ages in the Lab's gym? It may be far fetched but it is happening. The man in the gym, who has been seen around site in a red medieval cape and hood, is not a victim of a time warp. He is a twentieth century chemist named Frederick Hollander.

Hollander, who came to BNL in September, is a member of the California-based Society for Creative Anachronism (SCA), a non-profit corporation with 5000 members. According to its by-laws, the Society is devoted to the research and reconstruction of the Middle Ages.

They are primarily interested in the chivalric Middle Ages, which is written about a lot but which existed only at the very peak of the Middle Ages, Hollander said. The type of chivalry they are trying to reconstruct was practiced by the members of the uppermost classes such as the members of the court. "We do not reconstruct all aspects of the Middle Ages," said Hollander. "We certainly would not want to reconstruct the Bubonic Plague."

"We are combining as much authenticity about construction of costumes, fighting techniques, cooking methods, and song and dance forms with far more emphasis on the chivalric ideal than was actually the case." According to Hollander, the chivalric ideal was practiced more in books than on the field, and what the Society is trying to do is reverse this.

In the SCA, the twentieth century is known as the Current Middle Ages as opposed to the original Middle Ages which existed between 800 and 1650. It is this time period that they are trying to re-live.

In the Current Middle Ages, the known world is the continental United States, which is divided into four kingdoms; the East, West, and Middle Kingdoms and the Kingdom of Atenveldt which encompasses the South and Southwestern states.

Each kingdom is further subdivided into smaller political regions; baronies or provinces, shires and cantons. Brookhaven National Laboratory is in the Crown Province of Ostgard located in the East Kingdom. Ostgard includes Long Island, northern New Jersey, and New York City.

Each of the four kingdoms is ruled by a king, whose title is gained through battle. In the East Kingdom, crown tournaments are held twice a year. During these tournaments, the most skilled fighters in the kingdom battle for the crown.

The reconstruction of medieval fighting techniques is an important activity of the SCA. They are reconstructed from those recorded in Norse and Islandic sagas. Beowulf, an 11th century Anglo/Saxon epic poem, is another good reference, said Hollander.

Hollander is an active fighter but, unfortunately, has no one on Long Island to practice with. His only opportunity to fight is at the various tournaments held by the Society throughout the year. In order to retain good fighting form he practices three times a week in the gym. Without a partner he is limited to going through the various fighting movements, as a person practicing karate without a partner might do.

Hollander did try using a telephone pole once to practice his blows against, but this



Frederick Hollander.

proved to be an unfortunate mistake when Lab Security picked him up.

He does not have a full suit of armor, but has accumulated essential pieces, which are all hand made. His helm, which covers his entire head and neck, is made from a used freon tank. He made his gauntlets from boiled leather and metal plates, while his shield was constructed from scrap metal. During a tournament he covers his body with mattress padding to protect it from blows.

The Society does not permit the use of steel for weapons, so they are made of wood instead. Hollander's sword is made of rattan but weighs almost as much as a steel sword. His mace, which is the deadliest of all medieval weapons, is also made of wood but is heavily padded to approximate the weight of a real mace.

Tournaments are judged by skill alone, rather than by the harm done to one's opponent. All tournament fighting is based on the chivalric honor system. For example, if a fighter loses his weapon, his opponent will wait for him to recover it before resuming the fight. The skill and effectiveness of all

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Correction

It was incorrectly stated in last week's *Brookhaven Bulletin*, that Alien Address Report Cards should not be mailed. New regulations require that these cards be mailed. They should not be handed to an employee of the Post Office or Immigration and Naturalization Office.

Energy Research and Development Administration Takes The Reins

This week marked the first days of the Energy Research and Development Administration (ERDA), which officially came into existence on Sunday, January 19. On Monday, ERDA Administrator Robert C. Seamans, Jr. issued the following statement:

"With the creation of the Energy Research and Development Administration, the nation has embarked on a significant new undertaking in the drive for meeting our energy needs.

"This new executive agency, which came into existence on January 19, 1975, will bring together the Federal Energy Research and Development programs formerly carried out by the Atomic Energy Commission, the Department of the Interior, the National Science Foundation, and the Environmental Protection Agency. These programs include fossil energy, nuclear energy, solar, geothermal, and advanced energy sources, environmental and safety, conservation, and national security applications.

"Working closely with the industrial and university communities, and drawing heavily on the existing resources of our national laboratories, ERDA will advance the state of energy technology and provide new or improved sources of energy that can be produced by the private sector in ways that are economically and environmentally acceptable. ERDA will also develop more efficient energy conservation technologies to make better use of energy already available. Over the long run, the new agency will be able to make major contributions to the President's goal of meeting our energy requirements without the need for reliance on foreign sources.

"ERDA will coordinate closely with other government agencies, such as the Federal Energy Administration, the newly created Nuclear Regulatory Commission,



the Environmental Protection Administration and the Energy Resources Council.

"The Atomic Energy Commission was abolished with the creation of ERDA and the new Nuclear Regulatory Commission, which assumes AEC's responsibilities in the licensing and regulatory area. AEC has done its work well in the 27 years of its existence and I am confident that its employees look forward to the challenges ahead, both in ERDA and the Nuclear Regulatory Commission.

"The Office of Management and Budget, the Atomic Energy Commission, the Department of the Interior, the National Science Foundation, and the Environmental Protection Agency have all been most helpful in the transitional phase of getting ERDA organized and underway; without such assistance, the task would have been extremely difficult.

"Both the executive and legislative branches of the government put a great deal of effort into making the Energy Reorganization Act of 1974 a reality. They have wisely recognized the importance of having a strong research and development

(Continued on page 2)

Museum Sculpture Polymerized



Barry Galen (left) and George Arnold, prepare to impregnate a brownstone head with monomer. Once the sculpture has soaked in the monomer for two hours it is placed under hot water overnight to polymerize. The head, which used to adorn one of New York City's brownstone buildings, was brought to BNL from the Sculpture Garden of the Brooklyn Museum. For several years, the museum has been trying to preserve sculptures which decorated the City's demolished buildings. The polymer impregnation technique has been successful on several other sculptures so the museum asked BNL to polymerize this one, which is one of the finer pieces in the Sculpture Garden.



Lancelot

(Continued)

blows are judged by the person receiving them. Only he can tell if they are severe enough to "kill" him or render a limb useless.

Women are not allowed to fight, although Hollander would like to see this law revoked. He feels that they are quite capable and should be allowed to if they want to.

Do the concepts of chivalry and honor play as important a role in his every-day existence as they do when he is participating in SCA events? "Most definitely. I do not see how anyone can practice chivalry in one part of his life and separate it from another," Hollander claimed. "The concepts of chivalry, courtesy and honor are universal but they have been neglected during the last century or so," he said.

Because they have been neglected, he says, they are unusual. "It should not be unusual for one person to come to the aid of another, although it is. Every time it happens spectacularly, there is a story about it in the newspapers," he said. Hollander claims that this is not due to the fact that the concepts are not revered, but that they are not practiced by people. He says he would not hesitate to come to the aid of someone who needed help.

Although he enjoys medieval fighting, he is a conscientious objector and does not believe in war. "There is a large difference between the chivalric individual combat or even the mass combat and the sort of combat used in wars such as the Vietnam war," Hollander emphasized. When he fights and "kills" someone, he always knows that his opponent will be raised. Killing in the Current Middle Ages is purely symbolic.

One aspect of the original Middle Ages

that the SCA does not care to reconstruct is killing. Hollander compares the battles fought by the SCA to those fought in the mythological Norse domain of Valhalla, where slain warriors were raised by Oden at the end of each day.

Each member of the Society assumes a persona. "I try to pattern myself, in as much as possible, after a generalized chivalric ideal which was far more fictional than actual in the original Middle Ages," Hollander said. To his fellow SCA members he is known as Master Frederic of Holland. His wife Lynn is called Lady Nicorlynn of CaerWydryr.

The SCA was founded in 1966 by a student of medieval history at the University of California at Berkeley. She thought it would be fun to have a Medieval festival, with fighting, dancing, singing and food typical of the Middle Ages. It was so successful that all present decided to continue having medieval events periodically. Eventually, the SCA was incorporated as a non-profit organization and now has a membership of 5000 throughout the United States.

Hollander says that the members are from all walks of life. There are students, mechanics, schoolteachers, scientists, carpenters, housewives and policemen and the ages of the members range from nine months to 70 years. The SCA puts out a magazine and a newsletter.

At 11:30 p.m. on Saturday, January 25 NBC will have a 20 minute segment about the Society for Creative Anachronism on their program entitled "Weekend." Hollander is willing to offer instruction in medieval fighting techniques to anyone interested. If you are interested call him on extension 4379.

ERDA

(Continued)

agency to develop and maintain a balanced energy research and development program to meet the needs of our nation.

"The groundwork has been well laid, but now we must get on with the task of building a strong energy R&D program. ERDA's role is extremely important. We look forward to the challenge."

The location for ERDA Headquarters has been established in the District of Columbia. Temporarily, it will be in the Reporters Building at 7th and D Streets, S.W. in Washington, D.C.

Initially, the downtown Headquarters will be staffed by the Administrator and his immediate staff, the Assistant Administrator for Conservation, Assistant Administrator for Solar, Geothermal and Advanced Energy Systems, Assistant Administrator for Fossil Energy and the Assistant Administrator for Environment and Safety. The Assistant Administrator for Nuclear Energy and the Assistant Administrator for National Security will have offices in Germantown but will have representation in the ERDA downtown Headquarters.

The D.C. Headquarters will also include representatives from most of the major staff offices which are necessary to effect the transition. Ultimately, as space is located, the number of employees in Washington D.C. will increase to approximately 700. This will include about 400 employees associated with programs to be transferred to ERDA from the National Science Foundation and the Department of the Interior.

The official working hours for the ERDA Headquarters will be from 8:30 a.m. to 5:00 p.m.

All contracts, grants, agreements, etc. which were in effect when ERDA was established, shall continue in effect according to their terms until modified, terminated, superseded, set aside or revoked.

Spring Semester Begins

The 14th semester of the Brookhaven Semester Program got off to an icy start on Monday, when ten juniors and seniors from southern universities stepped off their planes at La Guardia Airport into three inches of fresh Long Island snow. Some of them had never seen snow before.

On Tuesday they were welcomed to the Lab by Glenn Price, coordinator of the program at BNL. Before touring some of the Lab's facilities, they were shown "Brookhaven Quest," an audio-visual presentation about Brookhaven produced by the Public Relations Office.

On Wednesday they met with their advisors and visited the Biology, Chemistry, and Medical Departments, where they will be working this semester. Their research programs and classes in Biochemistry/Molecular Biology and Physical Chemistry will begin on Monday, January 27.

This semester's class is made up of Biology and Chemistry majors from four colleges. They are: James Cotton, majoring in biology at Jarvis Christian College; Ceecil Gallop, a biology major at Elizabeth City State University; Joseph Hill, also studying biology at Jarvis Christian College; Alvin Kennedy, a chemistry major at Gambling College; Rodrique Marzett, also studying chemistry at Gambling College; Dwight Miller, a biology major at Jackson State College; Paula Minor, majoring in chemistry at Gambling College; Joseph Nettles, a biology major at Jarvis Christian College; Dale Watford, also a biology major at Jarvis Christian College; and Allen Wynn, a chemistry major at Elizabeth City State University.



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Letters To The Editor

Dear Sir:

This is in response to the Letter to the Editor of 11/22/74 by Gene L. Wells. We don't exactly know the scientific importance of the data used in the BNL/SLAC Race but perhaps the following will clarify the dilemma.

The age adjustment factor used in determining the speed index was originated by SLAC and agreed upon by BNL prior to the race.

The individual speed indices were calculated by

$$\text{Speed Index} = \frac{(\text{Age}) + (\text{Age Adjustment})}{(\text{Time in Minutes})}$$

The age adjustment factor was chosen to be 25. Actually this figure was arrived at almost arbitrarily so as to give more weight to the older runner. Further statistics from future races will serve to modify this.

I am sending you a suggested scheme for more accurately determining this factor. It is based on a function minimization technique. We would appreciate any comments you might have on this.

In answer to your inquiry regarding the number of participants (11 from BNL; 6 from SLAC), you are right that BNL's "top 6" beat SLAC's "top 6," but the arrangement was to count all participants and it would not have been fair to change the rules after the fact.

At any rate, thank you for your letter; we didn't think anyone cared.

Gus Prince and Don MacKenzie
BNL Roadrunners

Dear Sir:

I am most grateful to you and the mailing division for receiving the wonderful *Brookhaven Bulletin* during my disability. I call it the eyes, ears, and the most information about our grand Brookhaven Lab. A million thanks for sending me same. It is a great picker-upper for me.

I don't know if there are any articles printed to Letters to the Editor, but if there aren't I want to thank you and your entire staff for the good job you do, and the joy you give me.

My sincere thanks goes to Mr. William Webster, Head of Staff Services; Mrs. Dorothy Metz, and Mr. D. Metz, her husband; Mr. Schonberg and his staff of Personnel Services, Mrs. Francis Scesny and Mrs. Charlotte Schuette; also to Mr. Roger de Puy of Transportation, Staff Services. My sincere thanks and appreciation also goes to dear Doctor Robert Love, our clinic, who gives the best medical care a person could get. I want to thank them all for their well wishes.

Thanks a million for reading my letter. Best regards to all my friends, and God bless all of you.

Sincerely,
Daniel D. Zelem, Jr.

P.S. I just came home from the Veterans Administration Hospital.

Arrivals & Departures

Arrivals	
Joseph A. Lopez.....	Plant Engr.
Linda L. Miller.....	Medical
James Pittman Jr.....	Plant Engr.
Departures	
Arthur Dunn.....	Plant Engr.

ORNL Changes Name

During the first weeks of the new year, President Ford signed a bill changing the name of Oak Ridge National Laboratory to the Holifield National Laboratory.

The change was made to honor Chet Holifield, the recently retired Congressman from California and former Chairman of the Joint Committee on Atomic Energy. He served on the Committee, in some capacity, throughout his 16 terms in the House.

A spokesman for the newly-named Laboratory said the former Congressman made several visits there during his term.

Official & Special Events

Tuesday, January 28

Concordia College student tour

Wednesday, January 29

Concert - Berkner Hall

IEEE Power Engineering Society Tour

Tuesday, February 4

BERA Art Show Opens - Rooms B & C, Berkner Hall

Special Concert

BERA will sponsor a special concert at BNL to be given by William Goldenberg - piano, Laurence Gilbert - violin, and Yvonne Cable - cello. The program will include trios by Haydn, Mendelssohn and Beethoven ("Archduke").

William Goldenberg received his Bachelor Degree from Oberlin Conservatory, a Master of Music Degree from SUNY at Stony Brook and is continuing graduate work at The Juilliard School with Martin Canin. Mr. Goldenberg has performed in the New York area as well as his highly acclaimed performances of the two Piano Concertos of Brahms in Cleveland, and as a recitalist on The Summer Concert Series in Bar Harbor, Maine.

Laurence Gilbert is a native of Oberlin where he was one of the youngest students enrolled in the Conservatory. He has performed with The Cleveland Chamber Music Society, and was concertmaster of The Oberlin Theater Orchestra. As a participant in the Meadow Mount School, Mr. Gilbert has worked with Josef Gingold and Ivan Galamian, and is currently performing in New York while continuing studies at the Juilliard School.

Yvonne Cable received her Bachelor of Music Degree from Baldwin-Wallace Conservatory and a Master of Music Degree from SUNY at Stony Brook where she was a student of Bernard Greenhouse. Miss Cable has performed with The Festival de Duo Mondini in Spoleto, Italy, as solo cellist with The Zelenka Chamber Ensemble, and in recital at The International Center in New York.

Date: Wednesday, January 29
Time: 8:30 p.m.
Place: Berkner Hall
Admission: \$2.00

3000-Mile Challenge Race

Plans are underway for a 3000-mile Challenge Race with HEDL. Anyone interested should contact Gus Prince, Ext. 2901/2902 or Don MacKenzie, Ext. 4490.

Rifle & Pistol Club

The rifle team has a home match scheduled with Grumman on January 28th, and an away match with Republic on February 12th.

BERA Art Exhibit



This painting by Rubens Santoro entitled "Grand Canal, Venice" is one of the 19th century paintings being lent by the Hecksher Art Museum to the BERA Art Committee to be exhibited at BNL. Paintings of other 19th century masters such as Courbet, Jacque and Henner will also be displayed. Approximately 22 paintings representative of Salon and the Barbizon School will be in the Art Show. Opening night is scheduled for February 4 at 8 p.m. The show will be open on weekdays from 11 a.m. to 2 p.m. through February 21. A special evening showing will be held before and after the BERA Concert on February 19.

CREF Unit Values

1974			
January	\$40.75	February	\$40.83
March	39.32	April	37.58
May	35.11	June	34.29
July	31.71	August	29.09
September	25.39	October	30.27
November	29.23		
		December	\$28.35

A Morality Play Revisited

*The story saith, - Man, in the beginning,
Look well, and take good heed to the ending,
Be ye never so gay!
Ye think sin in the beginning full sweet,
Which in the end causeth the soul to weep,
When the body lieth in clay,
Here shall you see how Fellowship and Jollity,
And Strength, Pleasure and Beauty,
Will fade from thee as a flower in May
For ye shall hear how our Heaven's King
Calleth Everyman to a general reckoning
Give audience, and hear what he doth say.*

Everyperson is invited to Stage II, 26 Brookhaven Ave. to read John Gassner's version of *Everyman* and then to watch a modernized version of the same by Woody Allen under the direction of Rita Straub.

Everyman is the only morality play in the era of medieval drama that could stay in competition with the works of Marlowe and Shakespeare. Neither crude nor dull, the allegory is profoundly simple and fundamental. Its pathetically bewildered and lonely protagonist, significantly named "Everyman," is faced with the ultimate crisis of death and is overwhelmed by the most universal and least eradicable of human fears. The fascination of the play is attested by the version of the comic playwright, Woody Allen.

Two versions of an original on February 6, at 8:00 p.m. in Stage II - a program known as "A Morality Play Revisited."

Luv - Luv - Luv - Tryouts - Tryouts - Stage II at 5:30 p.m. on Feb. 10 and at 8:30 p.m. on Feb. 11.

Cafeteria Menu

Week Ending January 31, 1975

Monday, January 27

Cream of Celery Soup
Franks & Baked Beans 1.00
Chopped Steak & 1 Veg. 1.05

Tuesday, January 28

Cream of Chicken Soup
Cheese Ravioli & 1 Veg. 1.00
Veal Pattie Parmigiana w/Noodles 1.10

Wednesday, January 29

Vegetable Beef Soup
Stuffed Flounder & 1 Veg. 1.10

Chinese Special

Egg Drop or Pineapple Cubes
Choice of:

Sweet & Sour Pork on Boiled Rice
Barbequed Spare Ribs w/Chinese Cabbage
Choice of:

Fried Rice or Egg Roll
Jello or Ice Cream Small Beverage
\$1.87 plus tax

Thursday, January 30

Puree of Mongol Soup
Spanish Omelet & French Fries 1.00
Short Ribs of Beef & 1 Veg. 1.20

Friday, January 31

Sea Food Chowder
Fish Cakes & Spaghetti 1.00
Pot Roast & 1 Veg. 1.20

Classified Advertisements

Placement Notices

Each week the Personnel Office lists personnel placement requisitions, currently being processed. The purpose of these listings is, first, to give notice of all non-scientific staff positions being filled and, second, to give employees an opportunity to request consideration for themselves through the Personnel Office. In filling vacancies, the Laboratory's objective is to give first consideration to present employees, as follows: employees within the immediate group having the vacancy, employees within the department or division, employees within the Laboratory as a whole.

For further information regarding a placement notice, or to request consideration for an available position, contact Supervisor, Personnel Placement & Development, extension 2874 or 2882.

13. OFFICE SERVICES ASSISTANT - Temporary position. Public Relations. Director's Office.

14. SECRETARY - Temporary position. Physics Department.

15. TECHNICIAN - Tandem Van de Graaff Operations. Temporary, part-time position. Physics Dept.

16. OFFICE SERVICES ASSISTANT - Purchasing Div.

17. OFFICE SERVICES ASSISTANT - Reactor Division.

18. FACILITIES ENGINEER - B.S.M.E. or equivalent and experience in design of HVAC, steam, plumbing, controls and process and mechanical systems. Duties include field investigation, construction spec writing, drafting, equipment selection and procurement and system testing. Plant Engineering Division.

19. SEWAGE TREATMENT PLANT OPERATOR A (1) - Plant Engineering. Application deadline: February 3, 1975.

20. PLUMBER A (1) - Plant Engineering. Application deadline: February 4, 1975.

21. STORES CLERK (1) - Supply & Materiel. Application deadline: February 5, 1975.

Autos & Auto Supplies

2 SNOW TIRES - 6.78x13. Larry, Ext. 4110.

67 CADILLAC COUPE - Full power, a/c, good radial tires, int very good, needs some body work. 744-8949.

14" CHEV RIMS - (5 each) some w/tires, all for \$12.50. Gil, Ext. 4043.

74 VEGA GT - Hatchback, low mileage, A1 cond, very little use, 588-4703 after 5.

73 YAMAHA ENDURO - 250 cc, road & track, good cond, \$600. B. Hichborn, 929-4133 after 3.

FORD FAIRLANE 500 - Station wagon, auto trans, ps/pb, radio, roof rack; new trans, brakes, alternator, starter & battery, \$1000. E. Weinstock, Ext. 2943, 286-0263 eve.

72 VOLVO 1455 WAGON - Auto, roof rack, low mileage, excel cond, \$2725. 589-4363 after 6.

66 GMC 1/2 TON PICKUP - 8' body, new clutch, brakes, tuneup, snows, \$350. John, 924-3652.

Hospitality News

The next Morning Coffee will be held on Tuesday, February 4, at 9:30 a.m., in the Brookhaven Center. We hope you will approve of our decision to hold all future Coffees at the Center. Babysitting, at no cost, will be provided in another room of the same building.

Stephanie Morris will demonstrate techniques of dying yarns and fabrics using simple vegetable and flower dyes, as well as the use of the spinning wheel.

Remember, come to the Center and bring the children.

Pool Schedule

The spring season of the swimming pool will begin on Monday, February 3 and will extend through Sunday, April 6. Season passes will be on sale at the pool starting on Monday, January 27.

Time Schedule:

Monday through Friday
11:30 a.m. - 1:30 p.m. employees
5:00 p.m. - 9:30 p.m. employees/families/guests

Saturday & Sunday
1:00 p.m. - 6:00 p.m. employees/families/guests

Entrance Fees:

Daily
50¢ employee, family member
75¢ guest

Season Pass
\$5.00 employee
10.00 family

Special Schedule Note:

The pool will be closed on Tuesday, February 4 during the evening hours (5:00 - 9:30 p.m.).

No Weekend Activities At Gym

The Gymnasium will be closed to all activities from 1:30 p.m. on Friday, January 24 through Monday, January 27 at 11:30 a.m.

