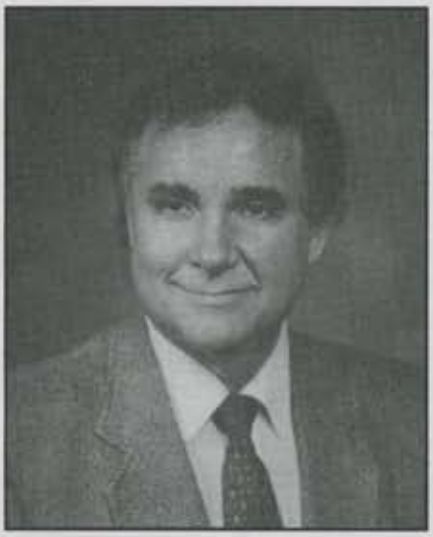
Neufeld Society

NEWSLETTER

Volume 5, Number 4 October 1992



Research interest high at LLU

by **D. Robert Johnson '61,** President

A couple of freshman medical students shared with me last week that their dream was to become orthopaedic surgeons. Last year this scenario was repeated about 15 times during the first six months of the school year.

Perhaps I get to hear these things because I teach anatomy to the freshmen medical students here at LLUSM. Anatomy is the first big class of their medical education and certainly one of the most fun. It often confirms their resolve to strive for a career in orthopaedics. Competition for this specialty remains very keen because orthopaedics continues to be one of the most competitive of all residencies—which portends good news for its future, since we continue to expect the "cream of the crop."

While visiting the orthopaedic research lab recently I spotted several of last year's freshmen busy slicing and measuring specimens under the direction of Dr. Subrata Saha, director of research. He and his staff seem to be having a good time guiding these junior bone crunchers. I was told that these sophomores will likely publish papers delineating their summer's work.

A minority high school student research program has been going on at the research lab throughout the summer as well. This apprentice program has been very successful in that it has exposed these students to serious research and given them a dimension of understanding and insight into what they face in their future education. By their own admission, the students have had great fun during this venture.

But these programs have taken a great deal of time on the part of the research staff. The demand on their time was so great that they felt an additional staff member was needed. The department members feel, however, that the good will created in the community and the press coverage given to the program was well worth the expenditure of time and energy.

Dr. Saha has put in place a LLU department of orthopaedic surgery Research Board of Advisors, which will hold its first meeting on October 7. You are all invited to attend this meeting. This type of board is unique to LLU. No other university in the world has such a board, made up as it is of major suppliers of orthopaedic hardware (Richards, Kinamed, Howmedica, Acro-Med, Kirschner, Osteonics, DePuy, BioMot, EBI, and Zimmer, and others).

The morning session will include resident project presentations and an update of research activities. Dr. Saha will solicit input from the attendees on the perceived needs in Loma Linda and the neighboring communities. This is an opportunity for you to sit in on these high-level discussions and present to these specialists your problems and/or pet projects.

Representatives of the School of Dentistry and from several departments of the School of Medicine are requesting the use of the research facilities and staff direction for their research projects.

I encourage you to stop by and see what is happening in the research department whenever

Continued on page 8

A stint at the Masanga Leprosy Hospital

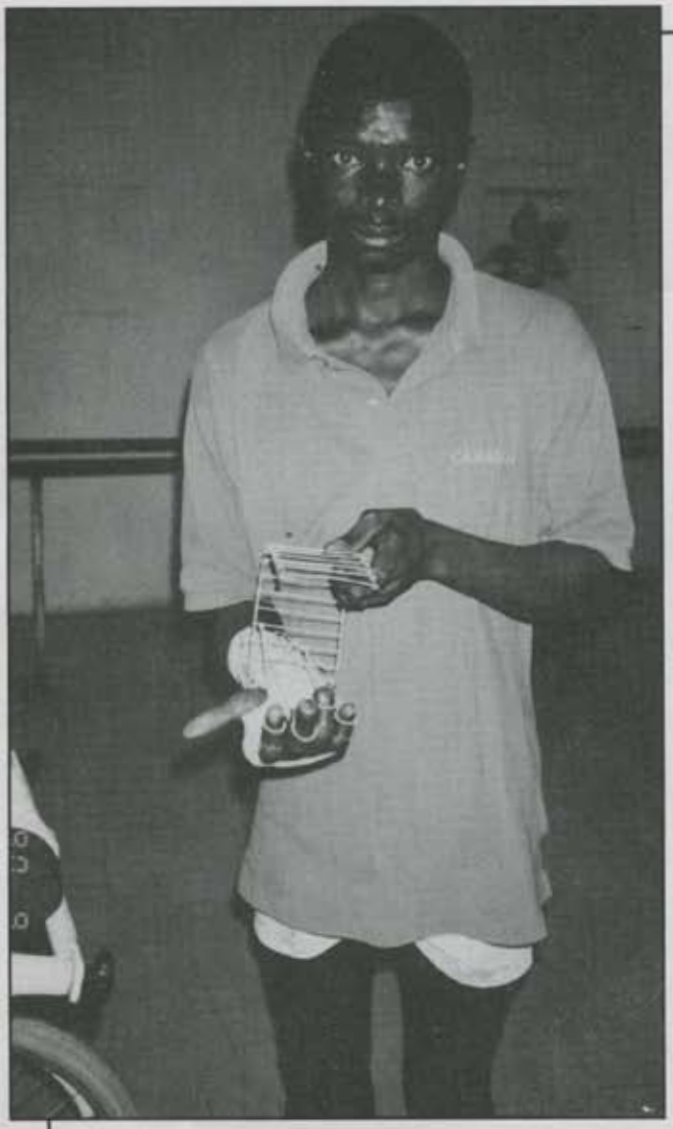
by ***Robert L. Horner '53-A***

At the invitation of the SDA Mission in Sierra Leone to treat deformed hands, I have been to Masanga Leprosy Hospital three times since 1973. I fly directly to Freetown, the capital of Sierra Leone, on the west coast of Africa. I'll say right at the outset that this work is not for all healers and adventurers.

The Republic of Sierra Leone, a former British colony, raised its new constitutional flag of green, white, and blue in 1978. Situated on the same latitude as Venezuela, this country of four million is roughly the size of Maine. As you come in for a landing you notice the mountainous peninsula, the beaches, the rain forests, and woodland savannah. Because of the poor soil, farming is hard and farmers live at a subsistence level.

After exchanging our currency for the Leone, we travel more than four hours over bumpy roads to our destination—the Masanga Leprosy Hospital. The Republic invited the SDA mission to develop and operate the Masanga Leprosy Hospital in 1964. The agreement called for the church to treat leprosy in all of its aspects, to operate a lep-

Dr. Robert Horner is welcomed by the village chief of a Muslim village.



Improvised splint for flexa tendon injury.

rosy control program, and to train leprosy workers of all grades.

I was soon aware of the rationed diesel-generated electricity, the absence of telephones, the minimal mail service, and the paucity of medical supplies. Yet, what is lacking in material and creature comforts is more than made up for in the strength of purpose and the determination of a dedicated staff. Over the last 20 years Dr. Roland Kazen has spearheaded the building of a leprosy hospital and training center that includes classrooms, a library, and a hostel. Here physicians, medical assistants, therapists, and other aids gather to be trained in the care and management of leprosy. They come from Holland, the Scandinavian countries, the Philippines, and from villages and towns throughout Sierra Leone.

Accounts of the horrors of leprosy have been recorded from biblical times into the early decades of this century and beyond. I remember hearing of the wildly contagious, incurable nature of this disease that causes paralysis, atrophy, and grotesque deformities in its victims. "Treatment" was usually confinement, quarantine, and abandonment to leper colonies. We now know that leprosy is the least contagious of all communicable diseases and that it is curable with modern drugs. This disease does not in itself cause death, and while digits may shorten because of lack of care, deformity need not occur with proper treatment.

Orthopaedic surgeons who study this disease at Masanga learn about a whole array of peripheral nerve disease effects, including sensory defects, various patterns of intrinsic and extrinsic paralysis, and functional defects of gait and prehension. More recently in an important move, Masanga Hospital, through its training program, has extended its work beyond leprosy to include polio-control programs and contracture releases and skin grafts for burn patients.

Nine-year-old Alhaji suffered severe third-degree burns on the left side of his head, trunk, and arm while trying to save his mother and sister from their home which was on fire. Although his wounds were healed after 11 months in a Freetown government hospital, his left arm had grown to his body. Only his hand was free. Alhaji's arm was separated from his body through a series of operations performed by Dr. Kazen. His hand was made much more functional through surgery I performed on him. After one year of hospitalization that involved pain, hardship, and rehabilitation—during which time his mother and sister provided much encouragement—Alhaji returned to Freetown a

Mansanga Hospital workers processing leprosy patients.

Hospital patient with long-standing leprosy.

A physical therapist making a house call on a stroke patient who has leprosy.

happy little boy.

There are thousands of people like Alhaji whose lives have been improved because of the care, treatment, and rehabilitation they received at Masanga Leprosy Hospital. Dr. Kazen is now on a study leave at the All-African Leprosy Education and Research Center in Addis Ababa, Ethiopia. Continued care at Masanga now depends on volunteers.

The longings of the human spirit to help, to be helped, to be well and happy are known to us all. The hope is that there are those who will catch the vision and volunteer to continue the work at Masanga. For information about volunteer or longer service, contact the administrator, Glen St. Clair, Freetown, Sierra Leone (TELEX: 3210-S.L.) ■

"Accounts of the horrors of leprosy have been recorded from biblical times into the early decades of this century and beyond. I remember hearing of the wildly contagious, incurable nature of this disease that causes paralysis, atrophy, and grotesque deformities in its victims. We now know that leprosy is the least contagious of all communicable diseases and that it is curable with modern drugs."

Meet the APC '93 symposium faculty

*by **David Hanscom '78-B**, Program Chairman*

I am looking forward to APC '93 and the exciting program that will be presented at the orthopaedic symposium. I have been invited to bring my "team" from Seattle with me to present a symposium on back pain. The title of the course is "Nonradicular Low Back Pain—A Comprehensive Overview of a Team Approach."

The symposium is intended to speak to all primary care and specialty physicians who deal with low back pain, physical therapists, and nurses.

The goal of the course is to provide professionals who regularly deal with patients with nonradicular low back pain an increased awareness of the current issues in both diagnosis and treatment. The audience should have a complete picture of what is currently available as well as an improved understanding of the psychosocial problems.

The group represents a team who has worked together in Seattle for over five years. The practical concepts of a team approach will be presented.

The diagnosis and treatment will be broken down into its components and each will be presented in detail.

I'd like to introduce the faculty who will be participating with me in the symposium.

John D. Denney, MD, graduated from Cornell Medical College in 1966, subsequently completing an internal medicine internship and residency in 1969, followed by two years in a nuclear medicine fellowship at the University of Washington. He practices at Swedish Hospital Medical Center and is a clinical assistant professor of radiology (nuclear medicine) at UW.

His group has had a long-standing interest in radionuclide bone scanning. For the past two years he has been an active participant in the Puget Sound Spine Interest Group with a particular interest in the application of radionuclide SPECT scanning in spine pain problems.

Richard J. Herzog, MD, is medical director of San Francisco Neuro Skeletal Imaging, which is a referral center for spine and musculoskeletal disorders. He has been a subspecialist in the field of spine and sports medicine for the past ten years.

Dr. Herzog has published several chapters on MR and CT evaluation of the spine in several texts, including Raven's recent text on the *Adult Spine, Principles, and Practice*. He is an assistant clinical professor in the department of radiology of the University of California, San Francisco. He is the radiologic consultant to the San Francisco '49ers, the San Francisco Ballet, and the Cleveland Indians.

Stanley A. Herring, MD, is a board certified physiatrist with a special interest in spinal disorders. He is in private practice with Puget Sound Sports Physicians in Seattle, Washington, and also holds a joint appointment as clinical associate professor in the department of rehabilitation medicine and the department of orthopaedics at the University of

Washington.

Dr. Herring's practice focuses on the diagnosis and management of nonoperative and postoperative spinal problems. He also is involved in lecturing on an international basis and has written widely about diagnosis and rehabilitation of the spine.

Dr. Herring has had a particular interest in spine problems in active people. He has served as a team physician for the San Francisco '49ers and the University of Washington Huskies. He is a fellow in the American College of Sports Medicine and one of the original members of the North American Spine Society. He is a recipient of the Richard and Hinda Rosenthal Lectureship Award, presented by the American Academy of Physical Medicine and Rehabilitation for noteworthy advancement in conservative care of lower back disorders.

David J. Tauben, MD, is a board certified general internist in the practice of both primary care internal medicine and specialty consultation in chronic pain management. He is a member of the Minor & James Medical Group, a fifty-member internal medicine and subspecialty practice group in downtown Seattle. He is also an associate clinical professor of medicine at the University of Washington.

Dr. Tauben holds both a degree in philosophy from Yale University and a medical degree from Tufts University School of Medicine.

His private clinical practice is composed largely of general diagnostic internal medicine, with difficult and complex medical cases frequently referred to him as a consultant to the greater Seattle area medical community.

John L. Shelton, PhD, specializes in the application of psychology to the assessment and treatment of chronic pain. The author of three books, numerous chapters, and over 30 articles in national and international journals, Dr. Shelton brings to the conference nearly 20 years of observations regarding chronic pain, risk factors which predict rehabilitation and surgical outcome, as well as key principles to follow when treating the hard-to-manage patient.

Sayers John Miller, PT, ATC, is owner/clinical director of Cascade Orthopedic and Sports Therapy in Seattle, Washington. He received a Bachelor of Science degree in health and physical education, with an emphasis in athletic training from Penn State in 1980. He received his Master of Arts degree in physical therapy from Stanford University in 1982. From 1980 to 1986 he worked as an athletic trainer for the San Francisco '49ers. Since 1986 he has been in private practice.

His practice specializes in sports and spinal rehabilitation. An active participant on the United States Olympic Committee, he recently served as an athletic trainer for the US Team at the 1992 Olympic Winter Games in Albertville, France.

His continuing education has concentrated on the many facets of manual therapy and spinal rehabilitation. He has frequently presented his eclectic approach to spinal rehabilitation on a national level to athletic trainers, physical therapists, and physicians.

Joining our team are two LLU orthopaedic surgeons.

James Shook, MD, is a 1977 graduate of Loma Linda University School of Medicine, where he completed his residency in orthopaedic surgery at Loma Linda University Medical Center. This was followed by a six-month fellowship in pediatric orthopaedic surgery at Shriner's Hospital for Crippled Children in Chicago, Illinois, and a one-

year fellowship in spinal surgery at Rush-Presbyterian St. Luke's Medical Center in Chicago.

Dr. Shook's clinical expertise is in pediatric orthopaedics and the spine. His research interests include adult low back disorders.

John Skubic, MD, attended medical school at the University of California-Los Angeles, where he received his medical degree and completed a residency in orthopaedic surgery. He did his spinal surgery fellowship at Toronto General Hospital in Toronto, Ontario, Canada.

Dr. Skubic's clinical expertise is in the adult spine. His research interests include adult low back disorders.

Please Note:
The dates for APC '93 have been changed.

The new dates are
February 5-10, 1993

The Neufeld Symposium will convene on
February 7 & 8

David Hanscom, MD, a 1978 graduate of Loma Linda University School of Medicine, is an orthopaedic spine surgeon. He took his orthopaedic residency at the University of Hawaii in Honolulu, followed by fellowships in orthopaedic trauma at UC-Davis and spinal deformities at Twin Cities Scoliosis Center in Minneapolis. He practices at Swedish Hospital in Seattle with a twelve-physician group.

He has been active in promoting clinical research in the private practice setting and is the founder and organizer of the Puget Sound Spine Interest Group—a group of 100 physicians in various specialties who meet on a monthly basis to discuss various spinal problems. He has also been active in promoting and organizing the Swedish Hospital Spine Institute, devoted solely to clinical research and education, as well as Washington's workman's compensation insurance group, which sets standards for spine surgery.

He feels that what is happening in Seattle is quite unique in that there is an excellent communication and cooperation between competing interests in defining what is the best care for the patient with spinal disorders.

His goal as the APC symposium program chairman is to convey this team approach and some of the reasons for its success. ■

The total received

for the

Alonzo J. Neufeld
Research Endowment Fund

as of June 30, 1992, is

$1,329,725

An Invitation

Dr. Subrata Saha, PhD, Professor and Vice Chairman for Research, department of orthopaedic surgery, LLU, extends an invitation to any member of the Neufeld Society to contact him should you have a research idea you would like to pursue.

You are invited to participate in a collaborative research project with the use of all available equipment.

Why not drop by and visit the research laboratories and acquaint yourself with the possibilities that exist for you to do serious research with the assistance of the research staff.

Plan now to visit the lab during APC '93, if not sooner.

Research at LLU
continued from page 1

you are in the area. By all means venture over to this specific department during APC. You will be surprised at the extent and depth of research that is currently being conducted.

You may have read recently of the plan by the Bush administration to control biomedical research efforts. After reading the report I was alarmed at the direction politicians want to take research. Let's support our own private productive program and make sure it continues to flourish.

One of the best ways we can ensure the continued success of the teaching and research programs in the LLU department of orthopaedic surgery is to complete the funding of the Alonzo J. Neufeld Research Endowment Fund. We have only about $175,000 to go to reach our goal of $1.5 million.

Won't you find it in your heart to make a sizable contribution to this fund before the year is over? Thank you in advance for your generosity. ■

The
Neufeld Society Newsletter
is published in
January, April, July
and October

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The
Neufeld Society Board
meets on
February 23, April 25,
September 19, and
November 28

Minority high school students summer research apprentice program

by Gery P. Friesen, Editor

LLU received a grant from the National Institute of Science to launch an experimental program that involved ten minority students and two teachers.

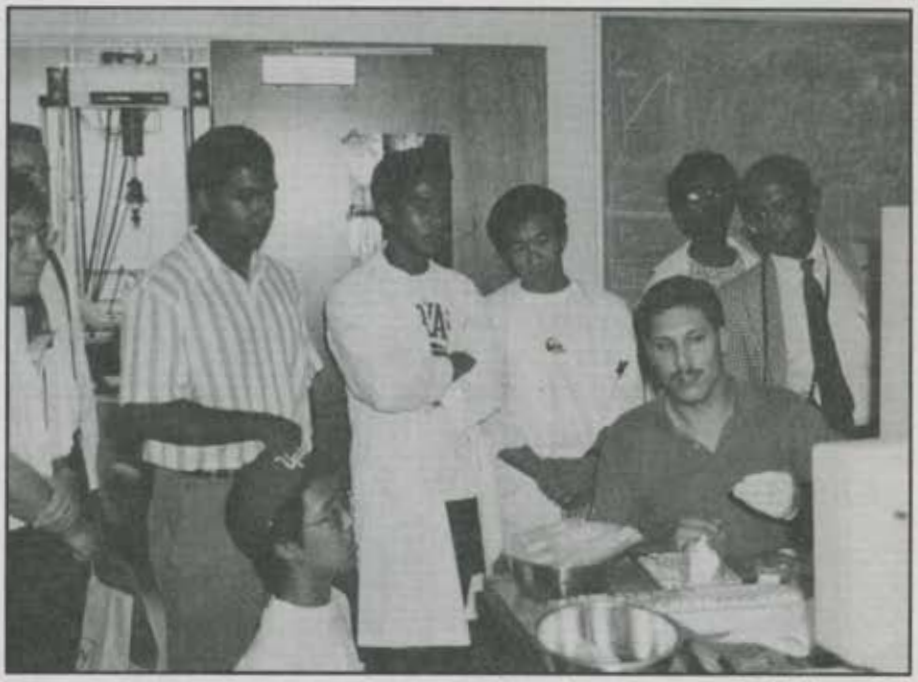
"The purpose of the minority high school student research apprentice program is to stimulate among minority students an interest in pursuing careers in biomedical research and the health professions," according to Subrata Saha, PhD, LLUSM professor and vice chair for research, department of orthopaedic surgery and program director.

The program was recently expanded to include high school science teachers. This year the science teacher initiative has been expanded again to include elementary, middle, junior high, and senior high school teachers.

"The experience should provide teachers with a hands-on research experience, affording them an opportunity to bring back to the classroom a sense of excitement of research that will stimulate students to pursue scientific careers," Saha said.

Saha's long-range goal is to establish year-round links between science teachers, elementary and secondary school students, and biomedical researchers.

Students eligible for support under this program are those who identify themselves as minority—Black, Hispanic, American Indian, Alaska Native, Pacific Islander, or Asian; are US



High school students observe medical student ***Leonard Bridges '95*** *test the affect of drugs to reduce bone loss due to osteoporosis in rats.*

citizens or have a permanent visa; and are enrolled in high school.

The selection of students is based on motivation, ability, scholastic aptitude, and accomplishments. In addition, consideration will also be given to the recommendation of science teachers, the student's potential commitment to a career in health research, and the degree of parental involvement.

Teachers are assigned to an investigator who can design an appropriate summer research project to update the teacher's skills in modern research tools and techniques and broaden the knowledge of scientific concepts. The program includes methodology which can be adapted to teaching students and help teachers bring excitement of modern research to the classroom.

The eight-week program pays students $4.25 per hour and teachers $2,000 per month.

The ten students who completed the program last summer scholastically ranked near the top of their classes. Unpaid volunteer advisers for each apprentice were drawn from professors in the medical school's departments of orthopaedic research, anatomy, neurology, microbiology, and infectious diseases. Each student received a handsome certificate of completion at the conclusion of the course.

Dr. Saha joined LLUSM in 1991 after spending 12 years at Louisiana State University Medical Center in Shreveport, where he was professor and coordinator of bioengineering in the department of orthopaedic surgery. After arriving at LLU, Dr. Saha took the initiative to organize a group of investigators willing to support this educational experience for high school students.

■

The Chairman's corner

by William P. Bunnell, MD, Chairman, Department of Orthopaedic Surgery, LLUMC

One of the important jobs of a department chair man is to look forward. That defines the goal. One important part of looking forward is to look backward. That defines progress.

Last year at this time we had just taken some bold steps to move forward with a new research effort. We had secured new lab space and were awaiting the arrival of Dr. Subrata Saha to become the director of research. We had no equipment, no grants, and no program.

What a difference a year has made! We now have equipment; we have grants (with several more in process); we have a well defined program.

This summer was one of intense activity in the laboratory as Dr. Saha directed a summer program funded by the National Institutes of Health for ten minority high school students and two teachers interested in science careers. Four students and one teacher worked in the biomechanics laboratory on a variety of projects outlined elsewhere in this newsletter. We also had two medical students and two orthopaedic residents working on projects, one of which has already resulted in an abstract for the Orthopaedic Research Society. You should not be surprised to learn that we have requested Dean **Douglas Will '78-A** to assign us more space!

Each year the dean requests a summary of all academic activity from our faculty. This provides us all an opportunity to look back briefly to assess our accomplishments. This was a very good year for us in this regard. I'll share the details of our accomplishments in a future column.

Looking back not only allows me to asses progress (and I like what I see) but also allows me to determine whether we're on course as originally determined. We have made a good start. Now we purpose to hold the course!

■

Research board of advisors formed

by Subrata Saha, PhD, Professor and Vice Chairman for Research
Department of Orthopaedic Surgery, LLUMC

A research board of advi sors for the department of orthopaedic sursgery, LLU, was recently formed.

This board, unique in the academic community, is composed of presidents and vice presidents of research and development of major orthopaedic companies, the president of the Neufeld Society, and other interested members of the orthopaedic community. I am delighted to report that every representative of the orthopaedic industry I contacted agreed to serve on the board.

I feel strongly that such a board could enhance cooperation between the orthopaedic implant industry and orthopaedic academic medicine, ultimately resulting in better patient care. It is envisioned that the board will meet twice annually: once during the AAOS meeting and again at Loma Linda. The meetings will include a presentation of studies being conducted at the orthopaedic research laboratories and a discussion of furutre research topics. It is hoped that the board members will guide us and offer suggestions for future endeavors.

The inaugural meeting of the Research Board of Advisors will be held on October 7, 1992, in the faculty reading room of the Del Webb Library.

I invite the members of the Neufeld Society to participate at this meeting. Your input is most welcome.

Research board of advisors

Denes O. Bardos, PhD
Sr. VP for Scientific Affairs
Smith & Nephew Richards, Inc.
Memphis, TN

Ian C. Clarke, PhD
President, Kinamed, Inc.
Newbury Park, CA

John H. Dumbleton, PhD
Sr. VP for Research,
Howmedica
Rutherford, NJ

John A. Engelhardt
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AcroMed Corporation
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D. Robert Johnson, MD
President, Neufeld Society
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Oseonics
Allendale, NJ

Dane Miller, PhD
President, Biomet, Inc.
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EBI
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Jack E. Parr, PhD
VP for Research
Zimmer
Prosthetic Implant Division
Warsaw, IN

Dick Tarr
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DePuy
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Richard W. Treharne, PhD
VP for Research & Regulatory Affairs
Danek Group, Inc.,
Medical Division
Memphis, TN

C. Scott Harrison, MD
President, Kirschner
Timonium, MD

First Annual Meeting
Research Board of Advisors
Orthopaedic Surgery
October 7, 1992
Faculty Reading Room Loma Linda University

Agenda

8:00 A. M.	Refreshments
8:30 A. M.	Invocation and Welcome
8:45 A. M.	Introduction of the Board of Advisors and Invited Guests Dr. Subrata Saha, Professor and Vice Chairman for Research, Department of Orthopaedic Surgery, LLU
9:00 A. M.	Future Direction for the Department of Orthopaedic Surgery Dr. William Bunnell, Chairman Department of Orthopaedic Surgery, LLU
9:15 A. M.	Research Progress Report Dr. Subrata Saha
9:30 A. M.	The Future of Orthopaedic Implants by Members of the Board
10:15 A. M.	Refreshments
10:45 A. M.	Needs and Challenges on Orthopaedic Care by the Orthopaedic Faculty
11:15 A. M.	Questions and Answers
1:15 P. M	Lunch
1:30 P. M.	Presentation by Residents and Medical Students
2:00 P. M.	Workshop: Relations Between University & Industry 1) Research support 2) Continuing education
4:00 P. M.	Visit the Orthopaedic & Bioengineering Research Labs
4:30 P. M.	Visit the Campus W. Augustus Cheatham, VP for Public Affairs, LLU
5:30 P. M.	Return to the Hotel
6:30 P. M.	Dinner

Please enroll me as a member of

The Neufeld Society

Annual Membership:

- ❒ Regular $100 ❒ Resident at _____ Completing in 19____
- ❒ Resident, Retired, Honorary, First year in practice are Dues-free
- ❒ Neufeld Society Tietack/lapel pin $30
- ❒ Alonzo J. Neufeld Research Endowment Fund: $_____
- ❒ Neufeld Society Life Membership $1,500 ❒ Neufeld Society Dinner $35

Name _____

Address _____

City _____ State _____ Zip _____

Received MD degree from _____ in 19 _____

Completed Residency at _____ in 19 _____

Neufeld Society NEWSLETTER

The *Neufeld Society Newsletter* is produced by the Alumni Association, School of Medicine of Loma Linda University, and is free to all orthopaedists. Your written request will place you on the mailing list.

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Sec/Treas: **Philip Reiswig '61**
President-elect: Martin Koffman, MD
Dept. Chmn.: William Bunnell, MD
Prog. Chmn.: **D. Hanscom '78-B**
Prog. Chmn-elect:
Board Members-at-Large:
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Gery P. Friesen
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Publisher: Peter Piper Publishing

All Neufeld Society Correspondence and manuscripts should be directed to the Editor, Neufeld Society Newsletter, 11245 Anderson Street, Loma Linda, CA 92354.

Orthopaedic Surgery Accrediation

The LLU department of orthopaedic surgery was recently informed by the Orthopaedic Residency Review Committee that they have been awarded a full five-year approval for twenty residents. Dr. Bunnell expressed his pleasure in the decision "because we had only provisional accreditation until this time," he said.

In its letter of approval the Committee commended both the department and the chairman for significant progress made over the past three years during which the quality of education improved and that progress has been made toward a meaningful research program.

Significant in the Committee's decision was the fact that all orthopaedic surgery graduates have been successful in passing their Boards on the first attempt since the new programs were instituted.

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