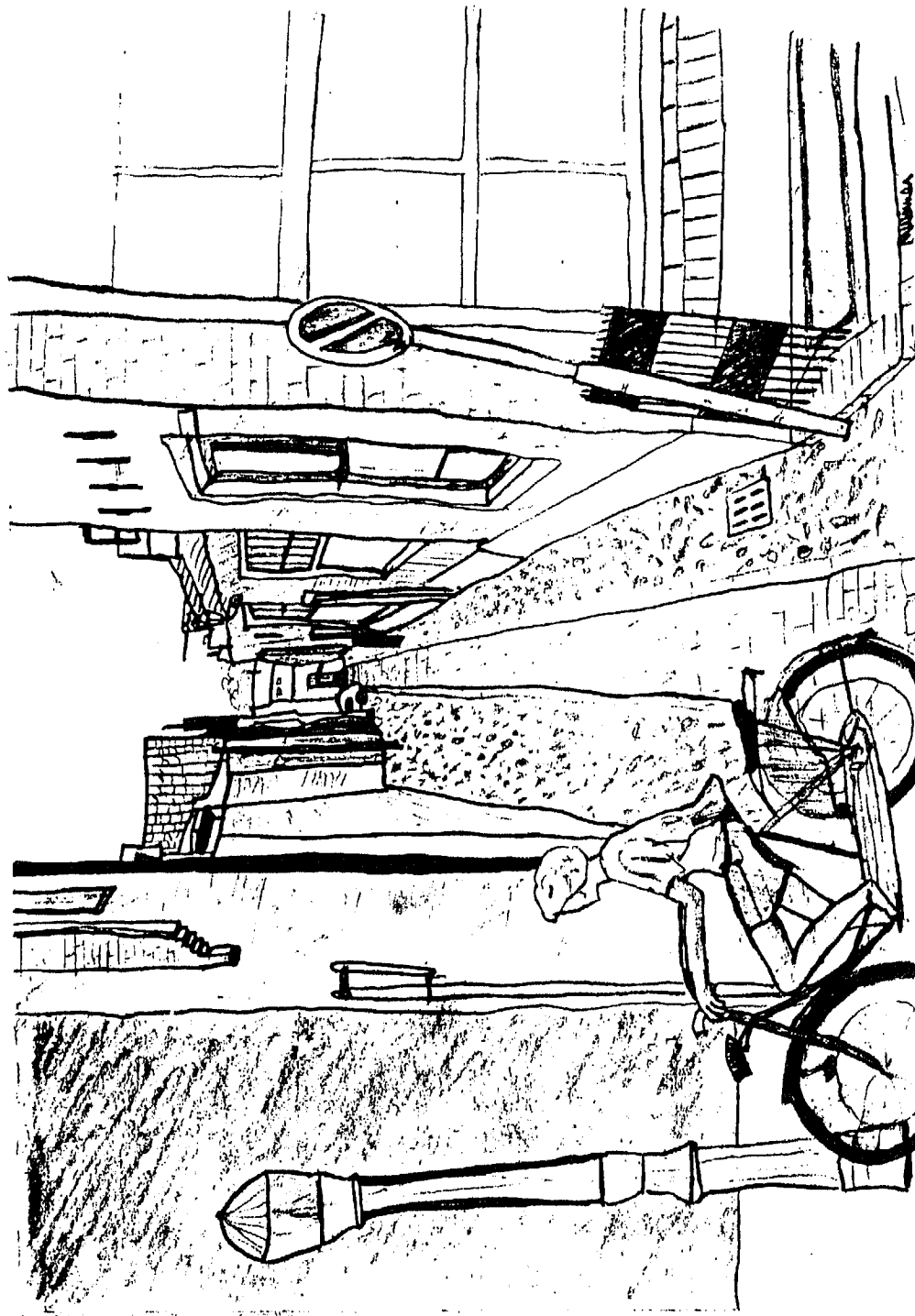


Shifting Dulness

February 1992



- Nitric oxide (NO) deficiency may be a major cause of impotence: Most cases of impotence are caused by abnormal vascular responsiveness, and NO is now thought to play an important role in normal maintenance of a penile erection, via vasodilation of the corpus cavernosum. NO is a smooth-muscle relaxant synthesized in vascular endothelium, from L-arginine. Scientists have known that in rabbits, NO and cyclic GMP play a role in relaxation of corpus cavernosum; a new study, however, demonstrates effects of NO in corpus cavernosum obtained from 21 impotent men. Researchers can now try to develop an effective skin patch effecting NO-mediated vasodilation, as an alternative to local papaverine or prostaglandin injections for the treatment of impotence. (Rajfer, J. et al. (1992) Nitric oxide as a mediator of relaxation of the corpus cavernosum in response to nonadrenergic, noncholinergic neurotransmission. *NEJM* 326:90-94. "What causes impotence?" *Newsweek*, 20 Jan 1992, p. 52.)

- FDA requests moratorium on silicone gel breast implants: The safety of the implants has been questioned, since there are cases of leakage of silicone into the body. Data reflecting the actual health risks of the implants is controversial. An advisory panel will meet before the end of February, to review new safety information on the implants. Potential dangers include silicone leaks, ruptured implants, inflammatory reactions, and possible associations with autoimmune and connective tissue disorders. Saline-filled implants are not affected by the moratorium. (1. FDA Electronic Bulletin Board, 6 Jan 1992. 2. "Calling a halt to the big business of silicone implants." *Newsweek*, 20 Jan 1992, p. 56.)

- Chloroquine acts by inhibiting a Plasmodium heme polymerase: The malaria parasites, while in the intraerythrocytic stage, contain food vacuoles that break down hemoglobin into essential amino acids for the parasite. Heme, a potentially damaging byproduct of this process, is normally incorporated into hemozoin (malaria pigment), a polymer of hemes in the parasite. Drugs containing quinoline have been found to inhibit the heme polymerase found in *Plasmodium falciparum*, leading to heme-based toxicity of malaria proteases. (Slater, A. F. G., and Cerami, A. (1992) Inhibition by chloroquine of a novel haem polymerase enzyme activity in malaria trophozoites. *Nature* 355:167-169.)

- Felodipine (Plendil) is a new calcium-channel blocker: Like other dihydropyridines, it can cause an initial reflex tachycardia, and can be used with a beta-blocker. Adverse effects include peripheral edema, headache, and postural dizziness. The usual dose is 5-10 mg qd. (Felodipine—another calcium-channel blocker for hypertension. *The Medical Letter* (1991) 33:115-116.)

- Some cancers may result from impaired communication via gap junctions: Healthy cells can often use the junctions, formed by connexin proteins, to communicate to neighboring cancerous cells, inhibiting their growth. By using gene therapy to correct a genetic defect that impairs such communication, scientists can induce the production of connexins, thus correcting the growth defects in the laboratory. (Altman, L. K. (1992) New cancer clue: how cells talk to each other. *The New York Times*, 21 Jan, p. B5.)



Medical Student News

MSIV

Herb Chen

Congrats to all the newly engaged people! The question is: Is Andre next? Look in the mail for graduation announcements—we have lots of activities planned. MATCH DAY PARTY—March 18, 1-5 p.m. at *TJ Hoops*. Food, drink, pool, etc. provided. Anyone that wants to have a party afterward please give Herb a call at 382-0107. Good luck with the Match!

Still traveling to interviews? Call Sang H. Suh at 313-769-0360 for cheap airline tickets (\$325 round trip anywhere in the continental U.S.; no advance purchase).

From Linda Chambers: Please submit names of faculty and house staff that you would like to attend the Hippocratic Oath and Hooding Ceremonies by April 20 to Linda Chambers. On March 18, 1992 Match results will be distributed at 12 noon in the Medical Center Board Room (1170c Duke South, Yellow Zone). Refreshments will be served. If you will not be in town March 16-18, please call Barbara Gentry (684-5901) to let her know how you can be contacted. Some state deadlines for FLEX registration are before Match results are distributed. Check with desired state's board of medical examiners. If you are interested in taking the NC FLEX, it will be given on June 16-18, with the deadline for receipt April 2. To obtain an application either call or write NC Board of Medical Examiners, P.O. Box 26808, Raleigh, NC 27611-6808 tel. 919-828-1212. Watch for Graduation Calendar!

MSIII

Lyndon Jordan

1) Student Faculty Show T-shirts available at Medical Bookstore. Buy yours now while supplies last. 2) Sex Education Program: MSIII's interested in teaching sex education in Durham City Schools should contact Shella at 967-0163. 3) Residency Application Workshop: Medical students invited to attend workshop at Bowman Gray School of Medicine Feb. 28, 1992. Workshop will include overview of the match process. Lunch provided. Contact Christine Marx. 4) MSIII Bowling Tourney: congrats to Larry "Strike-King" Kelly for capturing the 1991-92 MSIII Bowling Championship. Andrea "Pin-Crusher" Lukes led the lady bowlers. 5) MSIII Ice Skating Party Saturday, Feb. 1 from 7:30 to 10 p.m. at Daniel Boone Ice Skating Rink in Hillsborough. Everybody invited! 6) MSIII Ski Trip: A day trip to Wintergreen Virginia by bus is being planned for Sunday Feb. 23. Reserve your spot early due to limited seating. Everybody invited! 7) MSIII Budget Spring Break Options: Group travel breaks offered, watch for details. For more information contact Lyndon Jordan at 493-7877 or watch for details in *MSIII Progress Notes*.
Shifting Dullness

MSII

Alison Toth

Hope everyone enjoyed the class Christmas party at Forest Oaks Clubhouse on Dec. 18! There was a great turnout for the party—nice to see everyone lose the white coats for one night. Thanks to everyone who made Christmas treats, and those of you who helped set up and clean up after the poinsettia massacre, I mean party. Thanks especially to Rich Wu, who made it possible for us to use the clubhouse.

For upcoming activities, a hot evening out on the town at Fair Lanes (bowling) has been planned tentatively for Feb. 8 (Saturday). A class outing to see the Raleigh IceCaps hockey team play has been suggested—let a class rep know if you're interested and we'll arrange to get tickets, etc.

An end-of-the-rotation party on Feb. 26 has been suggested; would anyone like to host the party? More details will follow. Any questions/suggestions/complaints? Call Chris Cabell, Chris Hasty, Chris Woods, John Monks, or Alison Toth.

MSI

Franco Recchia

Best wishes to Tom Steele, who has taken a leave of absence to work in Chicago and reflect on life. Congratulations to Gen Geller and Robyn Hakanson on their recent engagements. Beware, all Durham residents, as young Nicholas Shawen continues to grow exponentially.

We are planning to mail letters of welcome and introduction to incoming first-year students. Sendoff date is early March; ideas and suggestions from students of all classes are encouraged. (Contact Franco, DUMC Box 2709.) Our class will be responsible for the next cleanup as part of the Adopt-a-Highway project; details are forthcoming.

All three Intramural basketball teams (the Dura Maters, Hematomas and class favorite Lesser Splanchnics) fared well this season. In varying degrees of brilliance, with Hussein Elkousy, Danny Camacho and Garrett Nichols named to the All-Amphitheater First Team. Softball season is coming soon..

After successful completion of January as "Official Physical Fitness Month," the amphitheater may have to be expanded to accommodate newly bulked-up individuals. In addition, two seats are being reserved for Ravi, who was awarded a nonfat cookie and a gold star for his near-perfect January attendance.

Announcements

CORRECTION: The November, 1991 issue of *Shifting Dullness* incorrectly reported that the American Association of Medical Colleges (AAMC) requires medical students to take the licensing boards. Licensure is required by each state to practice medicine in that state. The AAMC is not involved in state licensure.

CONTEST WINNER DAVID LEE! Congratulations to mud-phud David Lee, who correctly identified the location of the camera in 6 out of 7 photographs in the December '91/January '92 issue of *Shifting Dullness*. His dinner for two at *China Inn* in Durham was hard-won, and required hours of sleuthing. The correct answers were: p. 2- top of Davison Bldg, looking west; p. 5- walkway between Jones and Sands Bldgs., facing Karl Bldg.; p. 7- outside rear of S.J. Mudd Bldg., looking at hospital walkway; p. 11- window of Davison Bldg. 6th floor, looking north; p. 13- underground walkway between Bryan Neuroscience Bldg. and Searle Center; p. 14.- Duke South parking garage, facing helipad; extra credit p. 8- *Evan's Gas*, Middleburg, North Carolina.

1992 STUDENT/FACULTY SHOW: The 1992 Student/Faculty show needs individuals to sell ads for the show's program during daytime business hours. This is a major source of revenue and is therefore extremely important. Please contact Matt Areford (684-5354) or Marc Somers (419-0116) if available. The orchestra and set-crew are now being organized. Those interested please contact Brian Bowman (471-8282) or Jason Dimsdale (493-1531).

SUTURE WORKSHOP: If you'd like to learn basic knot-tying and suturing techniques, join the Family Medicine Interest Group on Feb. 6 in rm. 406 CTL for a suture workshop. Space will be limited to 20 participants, so please call Chris Barry at 684-3620 ext. 200 by Feb. 4 if interested.

GIRL SCOUT COOKIES: Stop by CTL or call 684-5967 to order from Carol Reilly. Only \$2.50 per box, \$1.30 is donated to Girl Scouts of America. Please order by February 2. Cookies will arrive February 22.

ANONYMOUS HIV TESTING THREATENED: The North Carolina Commission for Health Services wants to do away with anonymous HIV testing in the state. The Student Volunteer Network is circulating a petition opposing this irrational (and highly political) action. Ask Chris Woods (MS II), Katie Moynihan (MS I) or Garrett Nichols (MS I) for details.



SPORTS NEWS:

The GPSC, which forms the basketball ticket distribution policies, is considering revision of their policy and is going to rely on graduate and professional student input for the revision. To this effect, they will hold open meetings at 7 pm on Feb. 10 in the engineering building, ground level. It is very important that the medical school get representation at these meetings, as it is rumored that other professional schools are planning to send large delegations with their own agendas. Herefore, PLEASE, if at all possible, attend these meetings. If you have further questions, contact Terry Walton (MSIII) at 932-9587.

Spring IM signups are as follows:

Men's/women's: Softball captain's meeting, 7:30 pm on 3/23; 1 on 1 basketball sign-up 1/27-31; Swimming sign-up 3/11-25; Badminton and Table Tennis sign-ups 3/24-27; Golf sign-up 3/30-4/3.

Co-Rec: Basketball captain's meeting, 6 pm on 2/4; Softball captain's meeting, 7:30 pm on 3/23; Badminton and Table Tennis sign-ups 3/24-27; Golf sign-up 3/30-4/3.

MEDICAL GRAND ROUNDS (7:30a.m., Fridays in rm 2002 Duke North): Jan. 31- "Stabilization/Regression of Disease: A Realistic Therapeutic Goal in Atherosclerotic Disease?" Frederick Cobb, M.D., Professor, Div. of Cardiology. Feb. 7- "Radiofrequency Ablation of Supraventricular Tachycardia," J. Marcus Wharton, M.D., Dir. Clinical Cardiac Electrophysiology and Ass. Prof., Div. Cardiology.

Shifting Dullness Staff

| | |
|---------------------|--|
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February 1992

OPPORTUNITIES:

Johns Hopkins and U. Maryland's course in tropical medicine and international health is offered 3/30-4/28. Contact Dr. R. Bollinger or Dr. D. Thomas at 410-955-3150.

The Myoclonus Research Foundation is offering five 10-week student fellowships of \$2500 each for summer research on myoclonic movement disorders. Submit resume, research proposal and supporting letter from senior investigator to The Myoclonus Research Foundation, Inc., 200 Old Fallside Road-17d, Fort Lee, NJ 07024.

A conference on minority participation in graduate medical education will take place on March 7, 1992 at the SUNY Health Science Center in Brooklyn, NY. For more information contact Valeria Scott at 212-399-9040. For cheap travel and accommodations call 1-800-246-3600.

The Strong Children's Research Center at U. Rochester is offering Shapiro Student Training Scholarships (\$200 per week stipend) and Minority Medical Student Training Scholarships (\$1500 per month stipend and free housing) for the summer of 1992. Application forms can be obtained from Mrs. Alice R. Gordon, Administrator, Strong Children's Research Center, URMC, Department of Pediatrics, 601 Elmwood Ave., Box 777, Rochester, NY 14642 or telephone 716-275-8447. Deadline is 3/1/92.

Information is available in the Financial Aid Office (126 Davison) about:

- 1) **Hugh J. Andersen Memorial Scholarships**, which are given to financially needy, underrepresented, minority medical student residents of Minnesota. Awards range from \$2500 to \$4000.
- 2) **Joanna F. Reed Medical Scholarship** for residents of Alabama and Northwest Florida. Special consideration may be given to those interested in primary care medicine. Deadline May 15, 1992.
- 3) **Thomas Brown McClelland Trust Scholarship Program** for financially needy medical students who are residents of Dade County, Florida. Deadline February 1, 1992.
- 4) **Santa Clara County Medical Association Auxiliary Scholarships** available to residents of Santa Clara County. Deadline April 15, 1992.
- 5) **Japanese Medical Society of America Scholarship** Awards available to deserving students of Japanese ancestry. Deadline February 14, 1992.
- 6) **U.S. Public Health Service Student Programs.**



Shifting Dullness

FINANCIAL AID:

1992-1993 financial aid packets will be available soon. Watch for a notice in your Duke South mailbox.

Most spring semester loan disbursement checks have arrived. If you have not endorsed the loan check yet, please do so at the Bursar's Office in the Allen Building as soon as possible.

Temporary charge accounts are available at the Medical Center Bookstore.

Students may use financial aid funds for expenses related to approved elective study away from Duke during the third and fourth years. Where the student's expenses are greater than they would have been had the student remained at Duke, funds from the institution are not available for the additional expense.

The Financial Aid Office has a current listing of many outside sources of grants, scholarships and low interest loans. This is the best time of year to write prospective sources for more information and application forms. The application for some occurs as early as February or March for the upcoming year.

MSIII To Serve On Dean Selection Committee

The reality of Dean Doyle Graham's decision this year to step down from his position as Dean of Medical Education in order to pursue research interests has begun to sink in, as a committee has recently been formed to search for a new Dean. The committee will consist of various faculty members and a single medical student, MSIII Michael Felker. Candidates for the Deanship will include Duke faculty members as well as applicants from across the nation according to various sources, and several persons in the medical center have been rumored to be interested. The process for selection will be decided upon when the committee meets for the first time January 29, 1992.

Mike expects that serving on the committee will require a significant amount of work, having had experience with such responsibility at Southern Methodist University. There, in 1989, he helped pick the new Dean of Student Affairs. He believes his position as a medical student will give him a unique perspective on the current committee, one that he hopes will give weight to his opinions among the more senior members of the committee. Mike says he learned a great deal from his experience at SMU and expects to do the same this year in picking the new Dean at Duke.

Third Year Survey Requested by Dr. Snyderman

Kenny Bookvar

In October, 1991, Medical Center Chancellor Ralph Snyderman entertained medical students at his house, at which time the format of the third year at Duke was discussed. According to MSIII Andrew Mulr, Chairperson of the Student Curriculum Committee, the students at the meeting debated the merits and pitfalls of the third year as it exists now, as well as how to improve it, but could not give Dr. Snyderman any consensus opinion. As the third year at Duke is currently a significant part of the curriculum which can be modified as curriculum reform progresses, Dr. Snyderman requested a survey to determine students' attitudes towards it.

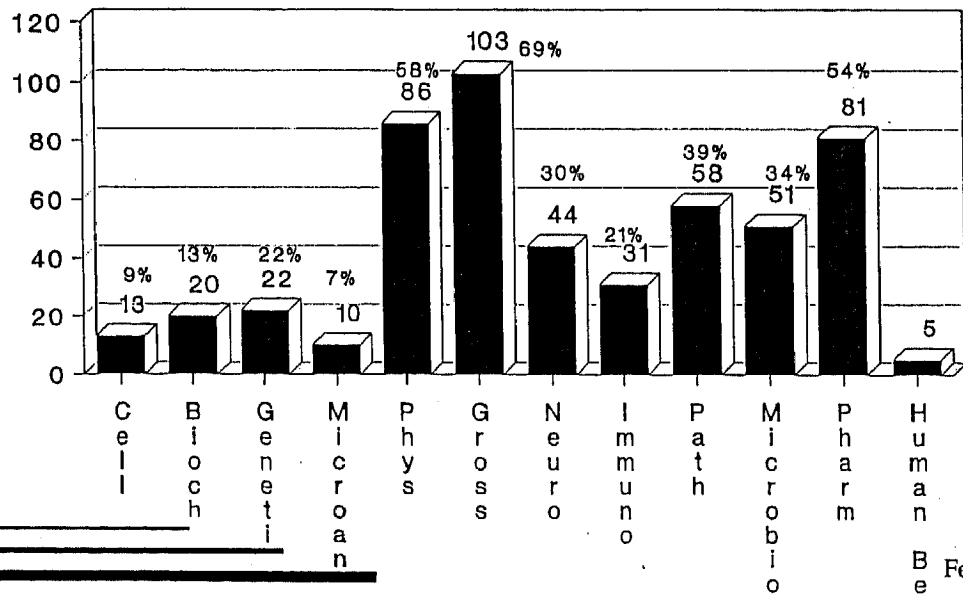
Like other surveys, this survey was conducted by the Student Curriculum Committee. Questions regarding coursework during the third year and regarding extending third year program options were sent to all MSIII's, MSIV's, and MD/PhD's, of which 72, 56, and 21 responded respectively, for a total of 149. Results have been presented to department chairs and will be discussed at the Third Year Basic Science Curriculum Committee this semester.

Responding students noted that they had basic science weaknesses in such areas as gross anatomy, physiology, pharmacology, pathology, and microbiology that they wanted to correct during the third year (histogram 1), either by taking courses or by reviewing the

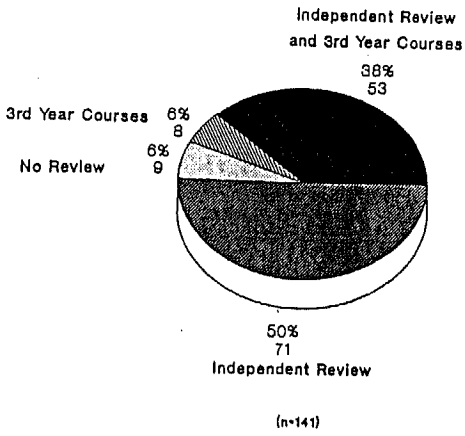
subject on their own (pie graph 1). However, many students were unable to accomplish this goal: 57% of the students said that they could not find courses that met their needs, especially in physiology and pharmacology, and 45% said that they were discouraged from taking courses by their preceptor or study tract director. Hence, 65% of the responders reported that they took no basic science electives during the third year (histograms 2& 3).

Students were then asked whether there should be more program options during the third year. Around ninety percent supported offering students the options of doing research part-time and doing elective courses part-time, of allowing students to get a Masters in Public Health without doing a research project, and of doing research full-time. However, 46% of the responders opposed allowing students to take courses full-time without doing a research project. When asked which of these options they would choose if they were available, 46% said that they would undertake full-time research (with the required study-tract courses), 44% would prefer doing part-time research and part-time basic science electives, 7% would enter a program in public health or public policy and do no other basic science, and 3% would take courses only and do no research (pie graph 2). Ninety-five percent of the MD/PhD's said that they would undertake full time research.

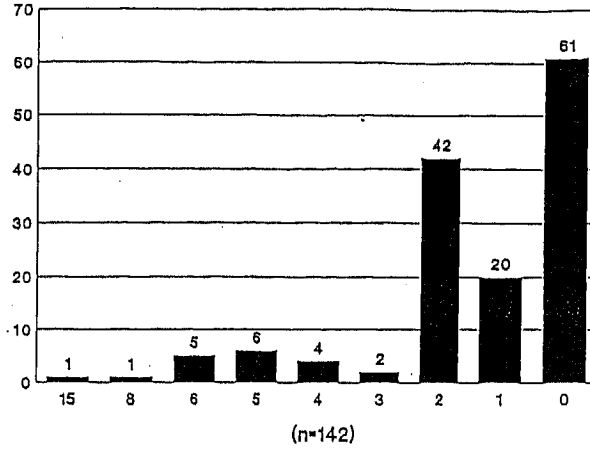
After 2nd year rotations, did you notice any basic science weaknesses that you wanted to correct 3rd year?



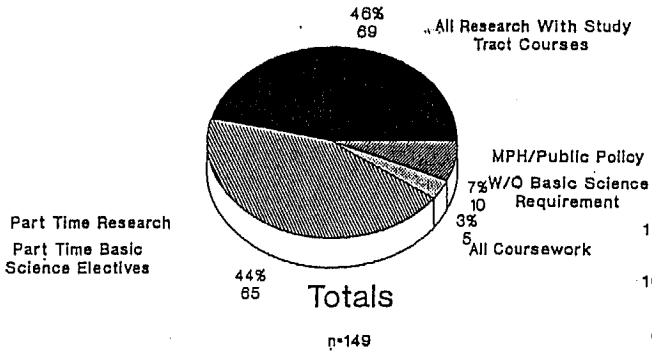
If you noted weaknesses, how did you/have you planned to correct them?



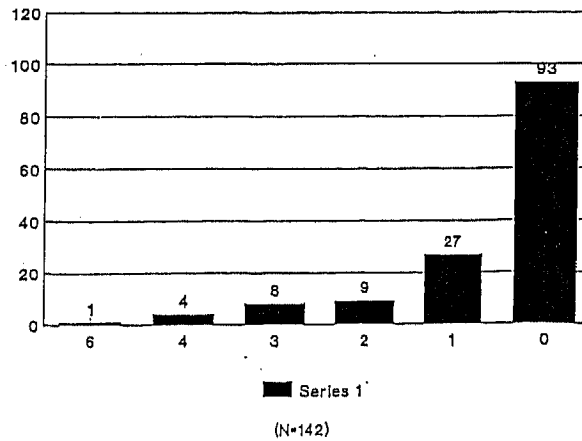
Number of basic science courses required by your study tract taken/taking all year:

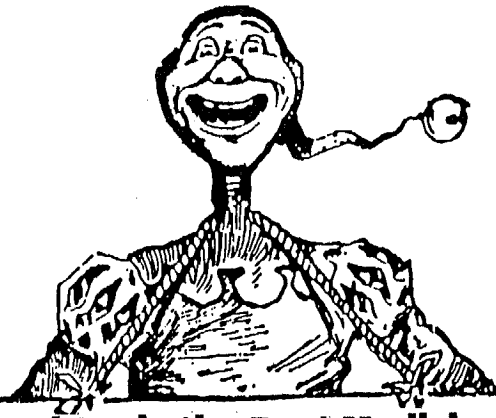


If 3rd year was broadened to include several program options, what would you choose?



Number of basic science electives taken/taking all year.





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An Historical View of the Animal Rights Movement

Patty Shi

"Then God said 'Let Us make man in Our Image, according to Our likeness; and let them rule over the fish of the sea and over the birds of the sky and over the cattle and over all the earth, and over every creeping thing that creeps on the earth.'" Genesis 1:26

The assertion that human rights take precedence over those of other animals was made early in the history of Western thought and has been the predominant belief since. Experimental use of living animals also dates far into the past. The earliest record of such use comes from Erasistratus of Alexandria (304-258 B.C.), who studied circulatory function in live pigs.

A forceful argument for animal research was made during the rise of modern science in the early 1600's by Descartes (1596-1650). He proposed that nature consisted of two independent and morally unequal types of entities—*res extensa*, or physical beings, which were merely complex machines; and *res cogitans*, or thinking beings, which had the capacities for language, rationality, and will. Assuming the presence of these capacities to be all-or-nothing, Descartes believed that only humans were *res cogitans* and therefore had moral value. Animals, in contrast, were only *res extensa*, and, lacking spirituality, could not truly suffer pain. Therefore animal experimentation was entirely legitimate.

Later philosophers such as Locke (1632-1704) and Hume (1711-1776) used empiric observation to reject the view that animals are merely machines without any degree of the capacities possessed by *res cogitans*. Nevertheless, the perception that humans have greater rights than animals remained. Kant (1724-1804) argued against causing animals pain, not due to a belief in the inherent moral worth of animals, but due to his opinion that humans causing animal suffering would become less ethical in their behavior towards other humans.

Jeremy Bentham (1748-1831) laid the framework for animal rights by granting equal moral value to humans and animals. He maintained that sentience, the capacity to experience pain or pleasure, is the only criterion necessary for a being to have inherent moral value. The inflammatory nature of this belief was tempered by his concurrent belief that humans should strive for the greatest good for the greatest number. Therefore, among

morally equivalent beings, the interests of a few could be sacrificed to preserve the greater good; experimental use of animals is morally justifiable if the good thereby obtained outweighs the animals' suffering.

The debate over the relative rights of humans versus animals achieved public prominence with the antivivisection movement, which arose in Victorian England in the mid-1800's over concern about the impact of experimental medicine on religious and social mores. The antivivisectionists campaigned for the cessation of animal experiments, fueled by their interpretation of Charles Darwin's theory of evolution as showing that humans and other animals differ only in degree, not in kind.

Continuing debate, along with advances in zoology, engendered a counter-argument to philosophies like Descartes' which assert that humans have greater moral worth than animals due to the possession of "uniquely human" capacities such as language, rationality, will, self-reflectiveness, and caring relationships. The counter-argument is that animals, to varying degrees, do possess supposedly "uniquely human" capacities, with some species actually possessing them to an equal or greater degree than certain subpopulations of humans—examples being human fetuses, handicapped newborns, the severely demented, and the comatose. Therefore, it is unethical to experiment on such animal species unless the right is given to experiment also on their morally equivalent analogs among humans.

The animal rights movement once again entered the limelight in 1975, with the publication of Peter Singer's book *Animal Liberation*. Singer, instead of trying to establish equal moral value between humans and animals through cognitive function parallels, returned to Jeremy Bentham's argument that sentience is the sole requisite for moral value. Singer maintained that animal experiments were only justifiable if humans could be considered for the same experiment.

Obviously, the same debates over animal rights that stimulated philosophers in earlier centuries are still going on today. People generally agree that animals need to be treated "humanely," but the reasons behind this consensus vary tremendously. Some believe in the inherent worth of animals; others believe animals hold moral worth according to their similarity to humans; while

(see *Animals*, p. 10)

Shifting Dullness

9

Animals (from p. 9)

still others are against mistreatment of animals because it weakens human moral character. It is therefore not surprising that opinions also vary on the extent of restrictions, if any, that should be placed on animal research.

Despite these wide-ranging opinions, various federal and state laws have been passed regulating the use of animals in research. Two major federal laws are the following:

1. The Animal Welfare Act (1985) requires humane handling, care, treatment, and transportation of animals by dealers, research facilities, and exhibitors.
2. The Health Research Extension Act (1985) requires the establishment of committees on animal care and use, and provision for training in maintenance and care of animals at all research facilities accepting Public Health Service funds.

Experience, however, has revealed that laws often lose much of their force in practice. Therefore the question arises as to the role that individual scientists can play in assuring responsible and efficient use of research animals. In view of this goal, Russell and Burch (1959) proposed "three R's" that can be followed by scientists when designing experiments: replacement of animals with alternative methods of testing (for example chemical tests, computer models, tissue culture) where possible; reduction in the number of animals used; and refinement of protocols so as to cause the least amount of physical and mental suffering possible. At Duke, where medical students spend an entire year doing research, students can learn these principles and make them routine practice, now and for future experiments.

References

1. Bulger, R.E. (1987) "Use of animals in experimental research: a scientist's perspective." *The Anatomical Record*. 219: 215-220.
2. Donnelley, S. (1989) "Speculative philosophy, the troubled middle, and the ethics of animal experimentation." *Hastings Center Report*. March/April, 1989.

Duke Students Benefit From Financial Aid

To the Student Body:

As I emphasized to each of the five classes I have welcomed to Duke during orientation, the Duke University School of Medicine has a distinguished record of generous financial aid to its students. Keeping tuition among the lowest of the private medical schools has been a form of aid to all students. Through the use of scholarships and grants, the indebtedness of our graduates has remained in the low 30's for the past six graduating classes. Several students have asked me to disclose the raw data for these calculations, which I provide in the accompanying table. Note that Duke graduates rarely have debt above \$70,000, whereas debt above \$100,000 is accumulated by a significant portion of the class of some other private medical schools, much in the form of HEAL loans.

Fund raising for student financial aid has been one of my major priorities during my tenure as Dean, a value shared by Dr. Anlyan and Dr. Snyderman. As you have heard me say, the appropriate response to having been given is not entitlement, but gratitude. It is my hope that over the years you will join me and many others as grateful and generous alumni!

Doyle G. Graham, M.D., Ph.D.
Dean for Medical Education

(see Debt, p. 11)

Shifting Dullness accepts letters from all members of the medical school community. Opinions expressed do not necessarily reflect those of the editorial staff. *Shifting Dullness* reserves the right to edit letters for length and style. Mail to *Shifting Dullness*, PO Box 2865, DUMC or drop them in the *Shifting Dullness* box in the Alumni Affairs Office (candy room) or in the Duke North student lounge (6th floor).

Debt of Duke Medical Graduates

| YEAR | | DEBT | GRADUATES WITH DEBT | MEAN | MEDIAN |
|---------|---------|-----------|------------------------|--------|--------|
| 1986-87 | Total | 2,017,217 | 65/110 | 31,034 | 29,952 |
| | Med Sch | 1,715,629 | 60/110 | 28,594 | 27,806 |
| 1987-88 | Total | 1,894,956 | 62/106 | 30,564 | 30,121 |
| | Med Sch | 1,640,739 | 62/106 | 26,464 | 27,383 |
| 1988-89 | Total | 2,478,320 | 71/108 | 34,906 | 33,500 |
| | Med Sch | 2,205,879 | 69/108 | 31,969 | 29,713 |
| 1989-90 | Total | 1,965,903 | 70/98 | 28,804 | 22,824 |
| | Med Sch | 1,751,077 | 67/98 | 26,135 | 20,269 |
| 1990-91 | Total | 2,420,451 | 72/103 | 33,617 | 33,365 |
| | Med Sch | 2,150,651 | 71/103 | 30,291 | 30,000 |
| 1991-92 | Total | 2,056,912 | 66/103 | 31,165 | 30,447 |
| | Med Sch | 1,876,569 | 62/103 | 30,267 | 30,000 |

RANGE OF DEBT

| | 0-10K | 10-20K | 20-30K | 30-40K | 40-50K | 50-60K | 60-70K | 70-80K | 80-90K |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1986-87 | 14 | 8 | 11 | 9 | 15 | 4 | 1 | 2 | 1 |
| | 9 | 12 | 10 | 17 | 7 | 1 | 2 | 0 | 1 |
| 1987-88 | 9 | 13 | 9 | 9 | 14 | 6 | 2 | 0 | 0 |
| | 14 | 10 | 10 | 14 | 10 | 2 | 2 | 0 | 0 |
| 1988-89 | 5 | 5 | 22 | 13 | 16 | 6 | 3 | 0 | 1 |
| | 5 | 9 | 21 | 17 | 11 | 4 | 2 | 1 | 0 |
| 1989-90 | 15 | 15 | 13 | 5 | 11 | 6 | 4 | 1 | 0 |
| | 15 | 17 | 10 | 8 | 8 | 7 | 2 | 0 | 0 |
| 1990-91 | 5 | 10 | 18 | 17 | 10 | 8 | 2 | 1 | 1 |
| | 5 | 13 | 18 | 18 | 9 | 5 | 0 | 2 | 0 |
| 1991-92 | 11 | 9 | 13 | 12 | 7 | 10 | 4 | 0 | 0 |
| | 7 | 11 | 14 | 11 | 11 | 7 | 1 | 0 | 0 |

Shifting Dullness

Attention ACC fans: if your toilets seem to be going to pot, head on down to Lowe's, where you're sure to find . . .

Oops—wrong announcement.

Yes, it's time to get serious. There's a new threat to ACC pride in our midst, and it ain't Duke football. It's a certain school, from a certain town, with a certain team that's been ripping through Tobacco Road like a pack of wild indians. Of course, I'm talking about—da 'Noles.

You know, the school that brought us the tomahawk chop and other classic, correctly spelled cheers such as F - L - O - R - I - D - A S - T - A - T - E. Florida State, Florida State, Florida State. (Cheerleaders carry the letters with them at all times, just in case anyone forgets the proper sequence.)

The school where 90% of all athletes, apparently envisioning a future as wardens and/or occupants of the state's prison system, major in criminology.

The "football school" whose hoops players are utterly awed by their introduction into a tradition-rich basketball conference and the challenge of competing against the likes of Malcolm Mackey, Rodney Rogers and Richie Rich. Not.

As we approach the midpoint of the 1992 ACC basketball season, Florida State is defying the prognosticators. Picked to finish at the bottom of the pack in their first year of conference play, the Whooping Warriors are surprisingly 5-2 in the ACC and 12-4 overall, with a firm hold on second place in the ACC behind our heavenly Devils.

Perhaps even more astounding has been FSU's road record. In a league where home court advantage means more than just a familiar place to hang your jock, Florida State's first four wins were on enemy turf. In their league premiere, the Chopping Tribesmen crushed the legendary Dean Smith and his North Carolina Soled Soles in their home dome, prompting Dean to whine, "Hey—are they allowed to do that?"

Couple that shocker with wins away at Georgia Tech, Wake Forest, and Maryland, and a thorough spanking of the NC State Guggliottas last weekend at home, and you're looking at virtual domination of the ACC fraternity by a lowly initiate.

This wasn't how it was supposed to be.

Others knew the proper way to gracefully enter the ACC—in the prone position. The Yellow Wreck of

Georgia Tech were a combined 1-27 in their first two seasons in the conference, marks that endeared them to ACC coaches, fans, and players alike. Now in their 13th season of conference play, head coach Bobby Cremins can bask in the glory of a program ranked among the nation's finest and a haircut recognized as one of the nation's worst.

It's a lesson that FSU should learn well.

Florida State should also practice the fundamentals of ACC basketball, typified by Dean Smith's Immortal style known as "boring", before attempting to fly with our (David) Dukles. For those readers who little understand the intricacies of the back door cut and the full court press (and shame on you if you don't), FSU is for you. Revel in the simplicity of their put-ball-in-hoop "O". (Not that hoop. Other hoop.) Admire the skillful finesse required in their knock-man-to-floor "D". Just don't cheer them on to further successes.

Sure, I know this sounds like the whining of a sore loser (even though my undergraduate Cavaliers and post-grad Blue Devils account for half-ass U's only two ACC losses. Hah.). You just have to wonder if our comfy little conference has been fundamentally changed by FSU's addition. Florida State's basketball success seems a big-time warning that big-money athletics have arrived to the ACC.

So what? Isn't it about time we started running with the big boys?

Maybe not.

FSU's quick and unexpected ascendancy in the ACC's strength sport doesn't bode well for conference parity in those sports that FSU does play well, such as football and baseball. Certainly, Florida State football and its accompanying financial perks were the reasons that the school received a bid to join the ACC in the first place. The recent multibowl, multiconference agreement that will attempt to pit the top ranked college football teams against one another at the end of the season attests to the rise in prominence of the ACC as a football conference, as it highlighted new relationships between the major bowls and the ACC and Big East conferences.

It's no coincidence that the majors have suddenly developed an interest in these two "powerhouse" football conferences; Florida State and the Miami Hurricanes perennially finish in the top 5. The aftereffects

(see FSU, p. 14)

Ishmael Trimmed, For Real

Gee Bach, grab a pen name and suddenly every would-be Ishmael is out writing up moralistic travelogues. I guess you have no way of assuring authenticity, but golly, was that thing really postmarked from Austria? If the writer was a true medical student, (s)he should have recurrent fantasies in the OR involving all of the surgeons and the scrub nurse becoming temporarily incapacitated—dead, bilateral arm paralysis, overwhelming nausea, whatever, so that DUKE MEDICAL STUDENT, TRAINED ON PIGS, TAKES OVER HEART CASE. Where were the knowing asides to medicine?

Let me tell you where they're not. Beauty salons. You'd think all possible goofball combinations utilizing the words shear, hair, or cut spelled with a "k" would be exhausted eventually, forcing nationalization of the whole industry. Turns out cosmetology schools have a special lecture devoted to salon naming. I know all about cosmetology schools, because one time I made the mistake of revealing that I was a medical student (could have been the jacket and name tag, could have been the caduceus shaved in the back of my scalp) to a hairdresser bent on ruminating, out loud, on the similarities in our educational backgrounds. And I believed her.

Okay, okay. Two things you have to understand. First, I was young. If not that, maybe a little too anxious to explode stereotypes. If a stylist was prepared to tell me her training was as rigorous as mine, I, thinking of all the famous slighted hairdressers—Jon Peters, Vidal Sassoon, the Amazing Redken—was only too willing to listen.

Second, and this is not a sexist remark (warning added in proof: the following is an overtly sexist remark), provided she is not holding a sharp instrument, I believe it is in one's best interest to flirt madly with an attractive hairdresser. C'mon James Joyce (a medical student for two years) fell in love with a girl for the "soft rope" of her hair. Tell me you've never read too much into a lingering shampoo. If the object of desire describes morning lectures requiring a good deal of note taking, afternoon labs, and weekly quizzes, not only do you suspend judgement, you lustily seek out other coincidences.

"And I would always, always have to get someone else's notes just before the quiz."

"No kidding. Me too. Now what subjects did you take again?"

"You know, um ... Anatomy."

"No."

"Sure. Anatomy of the head, anatomy of the skin, anatomy of the nails. Anatomy of, um"

While we're waiting, I have to mention the winsome way she had of pointing out each body part while enumerating them, remarkably like the reflexive demonstrations I provide when presenting a patient on rounds with perioral cyanosis or Dupuytren's contracture.

"What about biochemistry?"

"Yeah chemistry. Sure, chemistry. Anatomy or the head, anatomy of the skin, anatomy of the nails. What was that other anatomy we studied? Uh"

I am generally a decent person. When someone gets stuck on a word, starts blocking, I try to provide cues, naturally at the risk of offending them if I'm not anywhere near where they're thinking. In this case, I'm hesitant. While not at a loss for other anatomies which a stylist could conceivably be required to learn—ears (she has just cut my left one), for example, or nape (although I had no idea cosmetology schools utilized such a rigorous systems approach)—in all probability, if I suggest these I gain only a longer litany of repeated nomina prior to her remembering what it is she is specifically trying to remember.

We are saved by the appearance of her daughter from one of the back rooms. Doe-eyed, with tiny tennis shoes and a soap opera name, Shawnee or Tawnee or something. You view this as a setback, but there is room for three in this crush. Gives Mom a chance to demonstrate the maternal bondage bit, lets me approach the delicate question of Dad. Trouble is, the kid's language skills approximate Joyce's "fourworded wavespeech." Trying to understand her requires the same level of inhuman concentration appropriated to getting a history from an aphasic patient. There is no more strenuous, and ultimately discouraging activity, than trying to get information from someone with aphasia or dysarthria. You're thinking, "my attending really doesn't think much of me since the cell count from this guy's spinal tap came back as 100% hepatocytes. Well, just wait. If I listen incredibly hard, focus my energy, become

(see Trimmed, p. 14)

of this added attention (and added millions of dollars), however, is open to question.

The pressure to win in the ACC is already great; it can distort priorities within programs with the best intentions (witness Jim Valvano's recent departure from NC State). FSU's entry only raises the stakes.

This would be fine if we all started on a level playing field; after all, exposure for FSU means exposure for Duke and for Virginia and for the remainder of the ACC members as well. Academically, however, Florida State simply does not fit into the ACC's puzzle. A hoped-for recruiting surge for the ACC as a whole within the talent-laden Florida pool will not materialize, opined assistant Duke basketball coach Pete Gaudet, because Florida student-athletes generally are not academically qualified to compete in ACC schools. Director of ACC sports information Tom Michels nevertheless maintains that FSU "fits in very nicely with the conference academically." (He then apologized for chuckling.)

The take-home message is this: despite a losing tradition that is sure to develop over the next few years for the ACC's "second tier" teams (that's everyone minus FSU, particularly in the dollar-hungry football conference), we must maintain our academic integrity—and insist that FSU does the same. High graduation rates for meaningful programs of study should be strongly encouraged, and academically unqualified students should be turned away from our schools, no matter what their athletic ability (Florida State's frequent admission of Prop 48 students is a good example—if a kid can't score 700 on the SAT, could he compete in an ACC classroom? I think not.)

College athletics in the ACC have a proud tradition of accompanying the central purpose of each university—to provide an excellent education. Even during the hoopla of the Final Four or the Federal Express Orange Bowl, let's try to keep that focus.

In the meantime, let's try to preserve that ACC pride by winning a home game against these guys now and then. One basketball analyst, looking at FSU's 2-6 road record in the Metro conference (metro what?) last year, saw trouble ahead for the 'Noles in the ACC: "Just wait 'till they hit Tobacco Road."

Indeed.

a human stethoscope, I'll be remembered as DUKE MEDICAL STUDENT, TRAINED ON PIGS, BREAKS APHASIC CODE."

Here's what I could make of one conversation:

M: Shawnee, come over here.

D: Werpiryc, phweeah todby Wall Street. LaLoah?

M: Later, honey, Mommy will play with you later. You can't go outside now.

D: Pcoo. Something from the Latin. (Opens door, goes outside.)

M: (to me) Clenched teeth noise. (to the door) Pawnee, you come inside right now.

(Repeat scene time three.)

Enough. Let's get to the good part.

"How does it look?"

It was the absolute worst haircut of my life. Obviously the job of an academic, rather than practicing, beautiful. I didn't care, it was just a formality, something to suffer through to get to something I had suffered over.

"Great. So ... Uh... If you're not married, you want to go outside, I mean, you want to go out sometime?"

For the life of me I still don't understand. Maybe she didn't recognize me after that haircut, though I was a new customer. Maybe it was a sequential thing, a list she'd memorized from only one end and had to go completely through to get to my total. Regardless, she starts over.

"Anatomy of the head (points to head), anatomy of the skin (points to head again), anatomy of the nails (displays nails), um"

"Biochemistry."

"Yeah, chemistry. Of course chemistry."

"Of the head?" I ask, not pointing.

"Head, hair. Permanents."

"When to Intubate."

"Huh?"

"Permanents. You can tell if someone's been poisoned by looking at their hair."

She stops sweeping. "You were a cosmetologist?"

"I wish. You know what their lecture schedule's like?"

For real, Ishmael



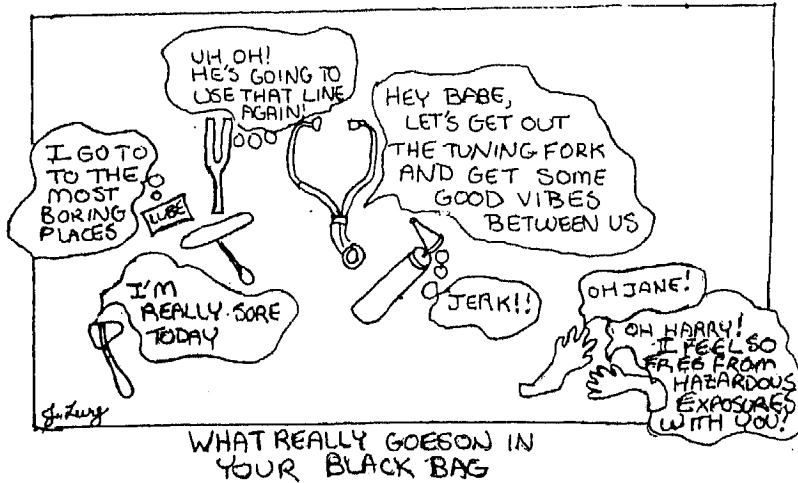
Computer News

FDA news by computer. The U.S. Food and Drug Administration now operates a toll-free electronic bulletin board service (BBS). Using your computer and modem, you can obtain up-to-date information about product approvals, enforcement, AIDS, congressional testimony, import alerts, FDA meetings, veterinary medicine, and more. Set your modem for 7 data bits, even parity, full duplex, and 1 stop bit, and dial 1-800-222-0185. Log in as "bbs" (lower case required). The BBS, based in Rockville, Maryland, is accessible 24 hrs a day, 7 days a week. For more information, contact the FDA Press Office at 301-443-3285.

Electronic Bulletin Board coming to DUMC. Jean Rabold of the Integrated Academic Information Management System reports that DUMC is now erecting its own bulletin board system, as part of the Common Services Network. Users will also be able to dial in from modems on computers anywhere. This BBS could contain up-to-date information concerning NIH, schedules of many types, topics of general interest in medicine, electronic resources, and even class notes and mail, for example. Details have not yet been arranged, and we need your input! Call Mike Welner immediately with ideas: 286-3147.

Reroute your mail. Any medical students with computer accounts on both the CDPLUS and DUKEMVS systems should have the accounts "linked," so that a single, standardized user code can be used to send mail. Mail sent to your CDPLUS (DEMPO) account will then be rerouted to your DUKEMVS account. Call Regina Leak at Medical Center Information Systems: 684-6326.

Central Teaching Lab has received Version 4.0 of the National Board of Medical Examiners Computer-Based Testing (NBME CBT). There are 35 patient cases (7 each in surgery, medicine, pediatrics, ob-gyn and family medicine). Key features of this videodisc-based simulation are: time realism (including timing and availability of test results and dynamic patient response consistent with the natural history of the disease); ability to present visual materials (radiographs; blood smears) without text; open-ended availability of all tests, procedures and treatments without cueing (this program will not prompt you!); ability to record the sequence and timing of actions (feedback summaries are printed when the case ends so that you know the chronological sequence of your actions, the relative merit of each action you took, and its cost). In summary, the student or resident is expected to diagnose, treat and monitor the patient's condition as it changes over time. The patient can also be moved to the ICU, ER, the physician's office, the ward, or home. These simulations are suitable for students who have finished clinical rotations, for third- and fourth-year students, and for residents. Bring your friends!! Three stations are available in M410 for this -remember that CTL is open till 7 p.m. four weekday nights. Call 684-5967 for access to the NBME CBT. There are also 700 computerized multiple-choice questions from "old" NBME Parts I, II, and III for review. These cannot be printed.





February Calendar

MUSIC

February 1: Saul and Aron Bitran violins; Javier Montiel, viola; and Alvaro Bitran, cello. Performing for the Chamber Arts Society at 8 p.m. in Page Auditorium.
 February 1: The Cuarteto Latinoamericano at 8 p.m. in the Griffith Film Theater.
 February 8: Winston-Salem Symphony with Shayne Doty, organ soloist. At 8 p.m. in Page Auditorium.
 February 13, 14 and 16: Mozart's *The Marriage of Figaro* - In English. At 8 p.m. in Page Auditorium.

DRAMA

February 3 and 4: *A Midsummer Night's Dream* at 8 p.m. in Page Auditorium.
 February 10-22: Duke Drama presents World Premiere Festivals by Duke students and faculty playwrights.

ART

to February 7: Black contributions to medical science in the Duke North display cases.
 February 7-28: Posters and prints by African-American artists in the Duke North display cases.
 to February 13: "Pillars and Fragments," by Blandine Saint-Oyant in the Louise Jones Brown Gallery, Bryan Center.
 February 14: "Sweet Art" sale at the Duke North display case. Come by and pick up a bargain on recycled art from Cultural Services.
 to February 14: "Black People," actual retouched photographs by Tom Whiteside in the Institute of the Arts, East Campus.
 to February 26: Winterfest of Contemporary Arts VIII, produced by Duke's Institutes of the Arts, East Campus. For ticket and exhibit info call 684-6654.
 to March 29: "Psychoanalytic" drawings by Jackson Pollock in the Museum of Art, East Campus.

FILM

Freewater-All films at 7 p.m. and 9:30 p.m. (unless otherwise stated) in the Griffith Film Theater in the Bryan Center. Free to Duke students.
 February 4: at 8 p.m. Chris Sullivan's *Master of Ceremonies* and *Landscape with the Fall of Icarus*.
 6: *Mad Max*.
 7: *La Femme Nikita*. mid: *Monty Python's The Meaning of Life*.
 11: *The Journey of Natty Gann*.
 13: *Metropolis*.
 15: at 10:30 a.m. *Swiss Family Robinson*.
 14: *The Commitments*.
 18: *The Girl From Hunan*.
 20: *1984*.
 21: *Barton Fink*. mid: *Brazil*.
 25: *The Graduate*.
 27: *A Clockwork Orange*.
 28: *Straight Out of Brooklyn*. mid: *Fantasia*.
 29: at 10:30 a.m. *Fantasia*.

LITERARY LUNCHTIMES

Fridays at noon in the Dean's Conference Room, M32 Green Zone, Duke South
 January 31: Novelist June Akers Seese will read. June's latest book is *Is This What Other Women Feel, Too?*
 February 7: "The Pardoner's Tale"
 February 14, 21, and 28: *A River Runs Through It* by Norman MacLean. The novella will be discussed for these three weeks and the discussion will be led by Frank Neelon.

About the cover: A European city scene, by Michael Weiner, MSIII