

WHICH WAY IS PHARMACY GOING?

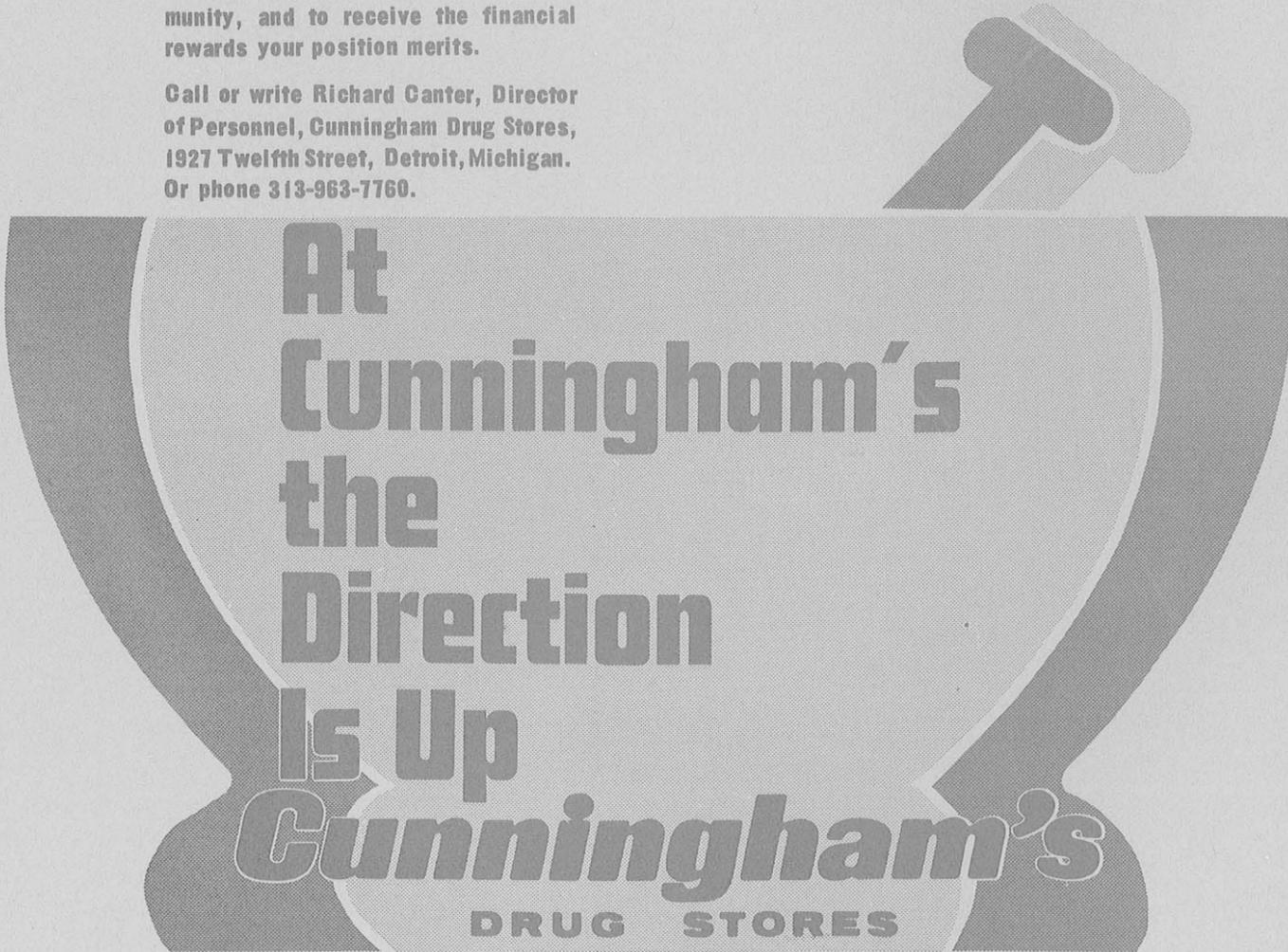
WAYNE PHARMIC Volume 18 Number 2 SPRING, 1974

Cunningham Drug Stores is on the threshold of a decade of growth. Although we are based in Detroit, our activities extend into six states. In addition to our present activities, we have plans to expand in a manner that will not only take us into many additional areas but give us almost unlimited potential as well.

The challenge of the 70's is here NOW at Cunningham's. We need competent professional men to help us meet that challenge. We want that one man out of every hundred who revels in competition . . . that one man who will accept any challenge.

If you are that one out of a hundred, we can offer you the opportunity for professional and personal growth and fulfillment. Cunningham's also offers you a chance to enjoy professional status, to give service to your community, and to receive the financial rewards your position merits.

Call or write Richard Canter, Director of Personnel, Cunningham Drug Stores, 1927 Twelfth Street, Detroit, Michigan. Or phone 313-963-7760.



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THE WAYNE PHARMIC

Volume 18

Number 2

SPRING, 1974

THE WAYNE PHARMIC

The Wayne Pharmic is the official publication for W.S.U. College of Pharmacy, written by, for and about Pharmacy students, graduates, and faculty.

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THANK YOU

The staff of The Wayne Pharmic wish to express their appreciation to Dr. Dunker for all his assistance in this publication.

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THE DEAN'S CORNER



"The New Curriculum for Fall 1974"

*Willis E. Moore, Ph.D.
Associate Dean
College of Pharmacy & Allied Health Professions*

A new curriculum begins this coming Fall for all entering third year pharmacy students. Our fourth and fifth year students are going to discover that they will not have to take, or will have to take courses that did or did not appear in our last published catalogue. You may well ask, "what is going on here?" In general, the answer is, "Progress". But, as we all know, different people react in different ways to "progress".

Some of the changes that will occur this Fall are: a) the seniors will take only one quarter of dispensing instead of two quarters as did this year's seniors; b) students will not have to take Marketing and Management but they may elect it if they choose; c) a required course in "Case Studies" begins for seniors; d) third year students will begin their human anatomy and human physiology sequence; etc. etc.

The details of the curriculums available this Fall will be made available to all students late this Summer. Once you see the new courses and the new arrangements of old courses, we hope that these new curriculums will excite you as much as they excited the Faculty, the students, and the practitioners that had input into their development.

The new curriculum that starts with next Fall's third year students is the result of three years of discussion by the Faculty and the Curriculum Committees of the Pharmacy Faculty. It is considered a major step in strengthening the clinical practice education for Pharmacy students. By the time these third year students become fifth year students, they will find that they will have completed all of the required basic pharmaceutical science courses needed to prepare them to provide patient oriented pharmaceutical services. They will spend the fifth year learning how to apply their knowledge to patient problems under carefully controlled situations in which their confidence to perform as a professional is nurtured to maturity.

They will also find that they have over twenty hours of electives to permit them to specialize in program areas of their choice, whether it be community, institutional, industrial, or academically oriented. Those wishing to take additional Liberal Arts electives will be able to do as well.

The changes confronting our current fourth and fifth year students will make the transition easier to the new curriculum, but we are all convinced that these changes will improve their current programs as well.

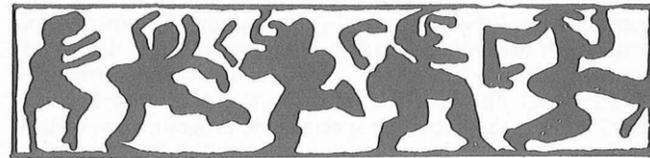
The passage of HB4145 by the Michigan legislature and the Governor's signing the bill into law to become effective January 1, 1975 has legally placed upon the practicing pharmacist the responsibility to make a value judgement in the dispensing of medication to the public. Unless decided otherwise by the physician, a pharmacist will be required to make a judgement on which brand of a "generic" drug he will dispense. Our new curricular programs will help the pharmacist discharge this professional (and legal) responsibility.

Future "Corner" columns will discuss other aspects of the new curriculum.



As always, another successful knowledge and pleasure filled visit with the Parke Davis people. The graduating class of '74.

GREEK CORNER



RHO PI PHI

Rho Pi Phi Pharmaceutical Fraternity is back on the Wayne State University campus. After several years of inactivity at Wayne, Rho Pi Phi has returned to carry forward the concept of professional fraternalism. However, instead of being an all-male fraternity, it now opens its doors to both sexes. Realizing that more women were becoming involved in the profession of pharmacy, Rho Pi Phi amended its national constitution in 1971 to include ALL pharmacy students. This represents just some of the modernization of Rho Pi Phi.

In November of 1973, the Detroit Alumni hosted a beautiful dinner at the Kingsley Inn to initiate the new pledges. Members of the Supreme Council came from all over the country to officiate at the ceremony. Those initiated at this affair-Milan Bera, Irene Leparskas, Martene Tucker, Bill Snider, Denise Sigworth, Susan Barancek, and Dennis Halstead.

During the spring rush, the Ropes promoted what they valued about fraternalism. When rush was over, the fraternity had grown over 300%. There are now 36 members: 21 guys and 15 girls. With the help of all members, the fraternity has great plans for next year.

The first professional project for the new members was to put up a display at Henry Ford Hospital in conjunction with National Pharmacy Week. The theme was "OTC Medication - Ask Your Pharmacist". Many exciting functions are being planned to benefit the pharmacy profession as a whole, and also to help the pharmacy student.

Marlene Tucker
Scribe
1973-1974

LAMBDA KAPPA SIGMA

The women of LKS have been very busy since the end of the fall quarter. Seven new members were initiated at Northland Inn on December 9, 1973. Omicron chapter welcomed Pam Porter, Robbie White, Sandi Pezzin, Mary Taylor, Barbara Mackey, Maria Kuziemko, and Laurie Keeth into their membership.

Then, to the tune of Jingle Bells, we visited Sarah Fisher Home for children and presented Christmas gifts, including a carpet and floor games to the different cottages.

Two of our members were hearing Wedding Bells instead. Robbie White became Robbie Skinner and Pam Porter is now Pam McKinnon. Congratulations (?) girls.

During the winter quarter we sponsored two bake sales to support our pet charities, the Sarah Fisher Home and the hospital ship SS Hope. One sale was held on February 14 with a Valentine theme providing a gentle reminder for those of us who came close to forgetting about the holiday.

When the time came for Spring break, the Lambs abandoned the Detroit scene. Over half of our members hopped the first train for Toronto to escape the post-exam blahs. Rumor has it that Toronto still hasn't recovered from the experience. (Neither have the Lambs!)

The new quarter saw treasurer, Mary Jane Wilson, descending down on all of us with raffle tickets and strict orders to sell no less than twenty books each. The raffle was of the 50-50 variety, with half the proceeds going as prize money and the other half into the treasury to support our charities. Actually, Mary Jane just wanted to stop using red ink in that record book she recites from at every meeting.

We would like to take this opportunity to recognize John Hayden as duly elected LKS "sweetheart" for the month of May. Well, John, that's what you get for going out there and hustling those raffle tickets.

Also during April, we made a donation in the amount of \$75 to Focus:Hope, a charity in the University area dedicated to aiding families in need. Plans for a Road Rally, including such interesting locals as Belly Rumble Road (i.e., Livernois), were cancelled in the interest of the now obsolete energy crisis. On April 22, we began Spring rushing with six new pledges.

At our May meeting, we elected new officers. Taking up new posts will be: Kathy Gaither, President; Mary Ann Badowski, Vice-president; Anna Quagliato, Treasurer; Sandi Pezzin and Robbie Skinner as Recording and Corresponding Secretaries respectively; Pam McKinnon, Chaplain and Mary Taylor, Historian. A formal banquet on June 15 was held to install the new officers, formally initiate our new members and provide an opportunity to socialize with those alumnae members of our chapter who have also been invited. The banquet, a roast beef dinner complete with cherries jubilee for dessert, took place at Shepherd's Inn. Best wishes go to Joan Ballentine and Babbie Holman on their graduation. Congratulations, girls.

Contrary to popular belief, LAMBS DO NOT HIBERNATE DURING THE SUMMER! Quite the contrary, as a matter of fact. On July 13, our former Mary Jane Wilson will take on a new identity as Chuck Sudekum's wife. That is, if she survives the "bachelorette" party we have planned for her.

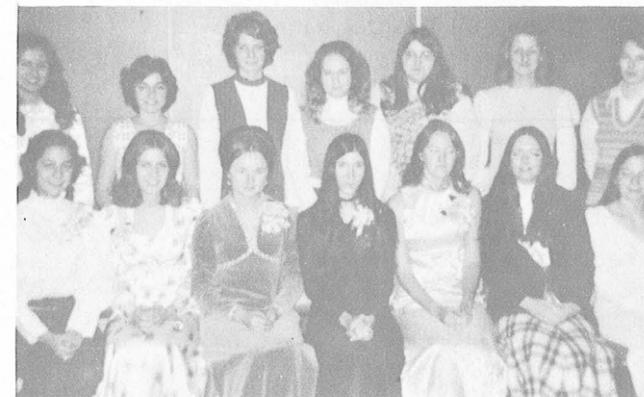
Also in July, four of our members will be heading for our Fraternity's national convention in sunny California. Delegates from Wayne's Omicron chapter include Kathy Gaither, Anna Quagliato, Mary Ann Badowski and Kathy Zajac. The convention will be a rewarding experience for them, as they will be exposed to new techniques in Pharmacy, as well as other young women in the field.

Plans are now in the making to conclude the summer with a picnic on August 4. This will provide us with an opportunity to catch up on any new situations that inevitably occur during the summer.

Finally, in case you haven't noticed, the Lambs have been competing with the male fraternities for recognition. All sixteen members are now sporting new blue jackets complete with embroidered insignia and white lettering.

That's it for now. Hope you all have a nice summer and come back refreshed in the fall!

Laurie Keeth



Big Sister/Little Sister FALL 1973



FAIRLANE DRUGS Congratulates The Rho Pi Phi Actives



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Allan Boike
Patrick J. Caplis
Claudia Eusani
Robin G. Firth Jr.
Dennis Halstead (*Chancellor*)

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Sharon Moss
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Isam Salah
Doug Schram

Dilip M. Shah
Denise Sigworth
David Singer
Bill Snider (*Guardian of the Exchequer*)
Ralph Spadafore
Adela Sterns
Thaddeus J. Studnicki

John Swartz
Muriel Tobin
Marlene Tucker (*Scribe*)
Norman Weber
Mike Werber

Faculty Advisors
J.B. Nagwekar
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Brent Forman
Don Fraser
Paul Gambino
George Losonci
Dan Mlynarek
John Paglino

Jerome Paruskiewicz
Frank Spitale
Pete Stayer
Mike Taylor
Mike Toth
Pete Visca
Brian Ward
Gary Weber
Joe Williams
Brain Ziolkowski
Dr. R.K. Mulvey
(*Fraternity Advisor*)

LAMBDA KAPPA SIGMA

Professional Pharmaceutical Fraternity For Women

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Joan Ballentine (*President*)
Kathy Gaither (*Chaplain*)
Babbie Holman (*Vice President*)
Lorie Kekic (*Recording Secretary*)
Lonnie Keeth
Maria Kuziemko
Barb Mackey



Pam McKinnon
Sandi Pezzin
Ann Quagliato
Robbi Skinner
Mary Taylor
Lucy Wilczynski (*Corresponding Secretary*)
Mary Jane Wilson (*Treasurer*)
Kathy Zajac (*Historian*)
Mrs. Cecelia Turczynski (*Fraternity Advisor*)

OMICRON COLLEGIATE AND GRADUATE CHAPTER

KY CAPSULE

Kappa Psi has led a very full, well-rounded life since the last Pharmic appeared on the scene. School, obviously, has kept everyone busy, but the social calendar has been full of activities, also.

KY has participated in a blood drive at Wayne; set up a display table discussing the effects of OTC drug abuse at the drug fair; and some of the brothers took part in the March of Dimes Walk-a-thon and helped to raise a sizable amount. We have a brother who is president of SAPHa, and another who is president of the SAB. One of our brothers is involved with the formation of the course evaluation forms, and sees why there has been so much trouble in getting the forms approved with all the opposition to them.

Socially, we've had two parties that helped take the edge off the academic year for a number of the pharmacy students. KY also hosted a tea for Dean Mammen and Dean Moore.

Jane Simons, our sweetheart, who is twelve years old, had one kidney transplanted on April 18. Her kidney was flown in from Denver in a life support system that cost \$15,000. The kidney is healthy and Jane is doing relatively well considering the complexity of her operation. Meanwhile, she has 31 guys praying for her complete and speedy recovery.

Kappa Psi has big plans for the future, not only for the fraternity but also for the school and the profession. We feel the professional pharmacy fraternities should get together and strengthen the student position in school. We feel the students have a common goal and there is no room for animosity between different factions. KY would also like to see the student organizations take a more effective role in forming decisions that will affect the lives of the future pharmacists. Finally, we

feel that Kappa Psi should do their part to make the life of the student and professional more relevant, productive and enjoyable.

John W. Hayden
Editor, Red & Gray

Student American Pharmaceutical Association

To all fellow pharmacy students:

When you return to school this fall, you will observe two new programs through SAPHa, those being a Hypertension Education Program and a SAPHa Lecture Series. The Hypertension Education Program will involve giving lectures to public organizations on hypertension, with our efforts coordinated with local health organizations and hopefully other health care professionals on campus. The SAPHa Lecture Series will bring in nationally reknowned experts to speak to our students on a quarterly basis on topics of professional interest.

SAPHa's looking forward to serving you and the profession this coming year. Won't you help us achieve our goals?

THE SAPHa EXECUTIVE BOARD

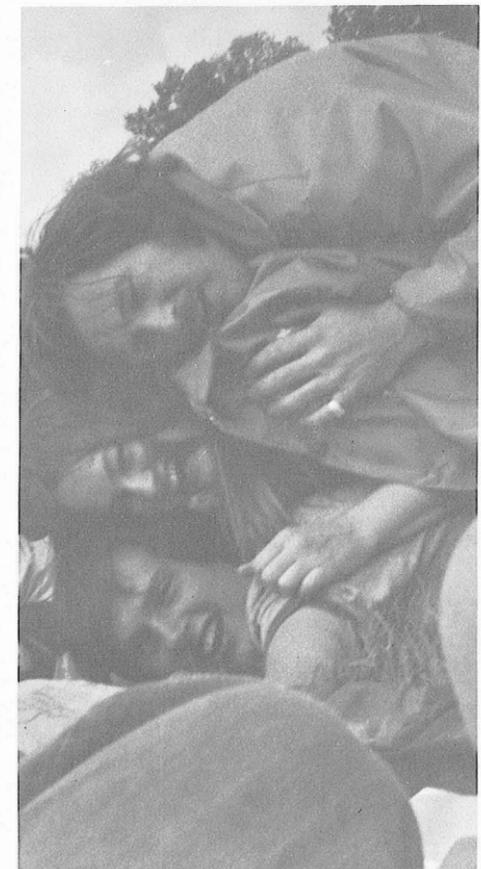
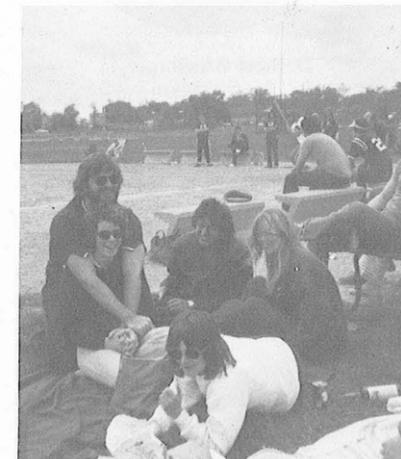
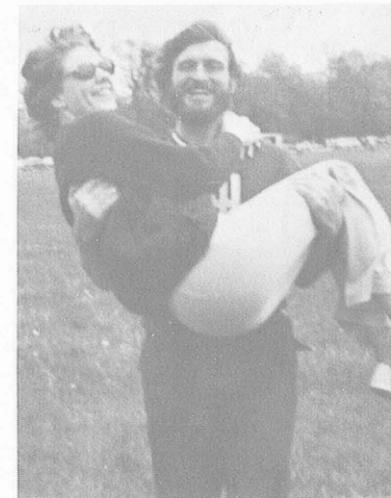
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FROM THE EDITOR

Here it is approximately one year later on an early Friday morning in May. Again the pharmacy classes are cancelled due to that fabulous annual picnic given by the SAB. We find a few early birds out on the fields at Belle Isle getting things set for those of us who are late starters. By the time the last minute stragglers arrived there were two baseball games in progress, back to back; the Fraternities stumbling over the bases and the GDIs trying to catch the ball. Of course, the thirst quenchers are well depleted by now. Well, we cannot forget those hard working, young students out soaking up the sun on the tennis courts, not to mention the instructors trying their darndest to hustle the students. It gets pretty embarrassing when the instructors beat you at your own game too, Right AI? Our most promising stars include Dr. Melvin Dunker (alias Arthur Ashe), Dr. Larry Swanson (Rod Laver), and the Bobby Riggs(?) of the tennis courts, Dr. Paul Munzenberger, still trying.

I'm sure all the students, faculty, spouses and friends who came to the picnic had an enjoyable time. It proved to be quite a success especially when the hot dogs were demolished on sight (cooked that is). Putting the exercise behind us, a few people ventured out to the Belle Isle Aquarium and the Hot House, but, was it to view the flowers and the fish? Others sat around for a short while relaxing and talking to friends. Soon it was time for a pleasure ride down the bright clear blue waters of the Detroit River—canoeing that is. This excursion was not only hard work on the muscles, but many of us found out that it gets kind of wet when you're out with friends(?).

Hopefully there will be a lot more of our students out next year putting together a fun day (how can it not be fun with classes cancelled?), one in which new friendships can be established and the ties between the students and faculty brought closer together.



MU OMICRON PI CHAPTER and DETROIT GRADUATE CHAPTER

WORKING TOGETHER TO PROMOTE THE

PROFESSION OF PHARMACY

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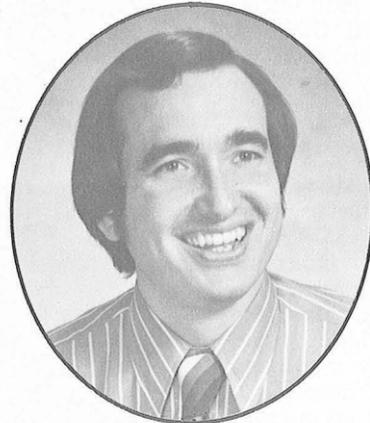
Pharmaceutical Fraternity

PHARMACY'S OLDEST AND LARGEST NATIONAL FRATERNITY

**THE GRADUATING SENIORS
1974**



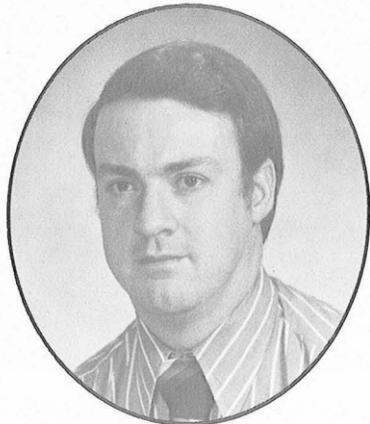
Joan Moretta Ballentine
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Lambda Kappa Sigma
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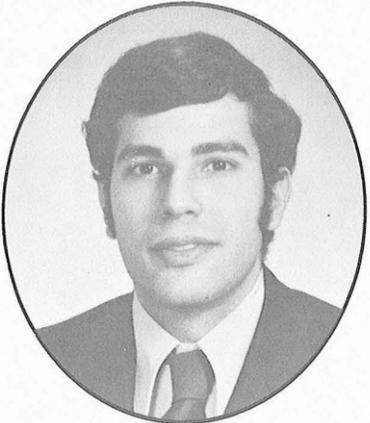
Jerry Hunter Bell
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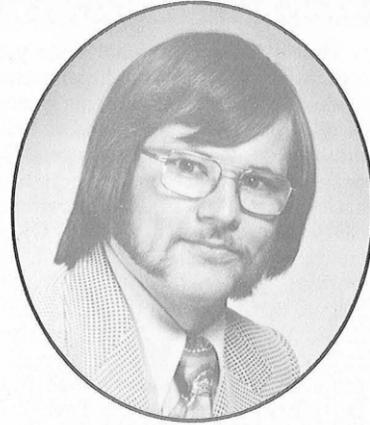
Beverly Band



Delbert Bowling
27, Married
Community Practice



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Michael Broge
23, Married
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SAPhA



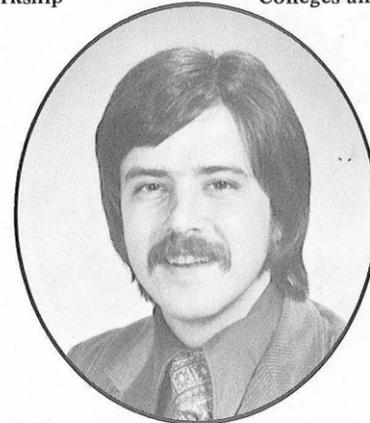
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Rho Chi
Dean's List



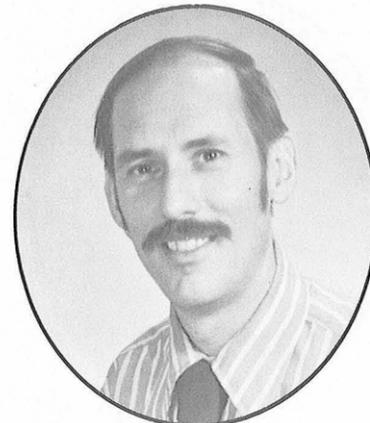
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ASHP SAB
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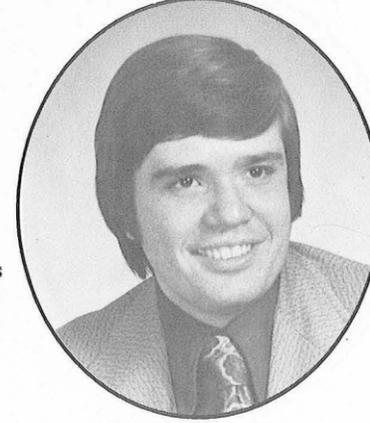
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Who's Who in American Colleges and Universities



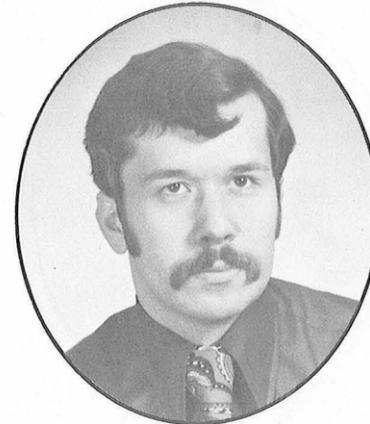
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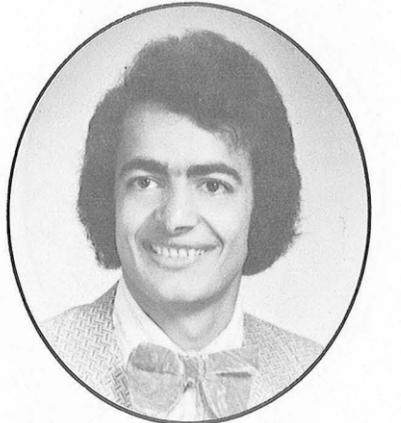
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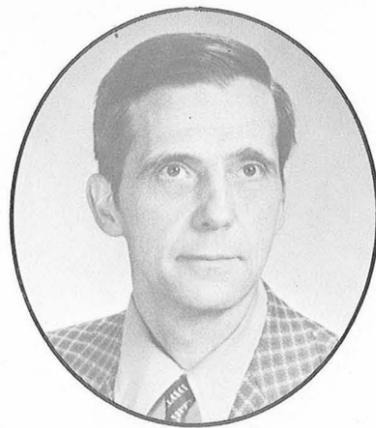
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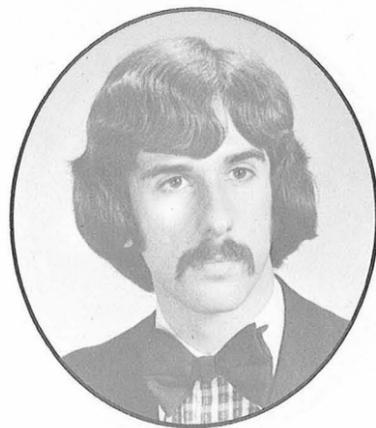
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27, Single
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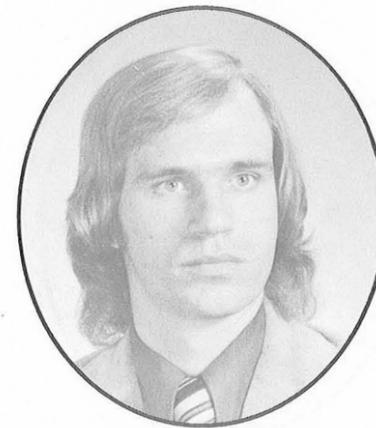
Jack M. Freij
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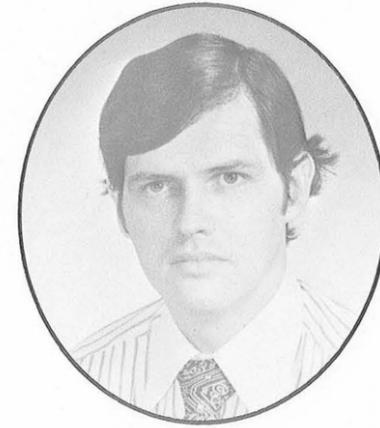
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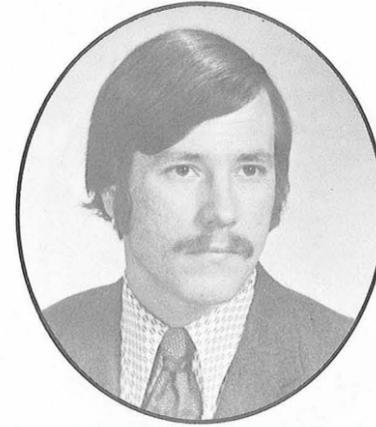
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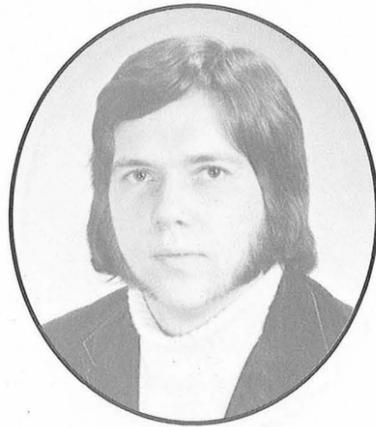
Clifford Laliberte



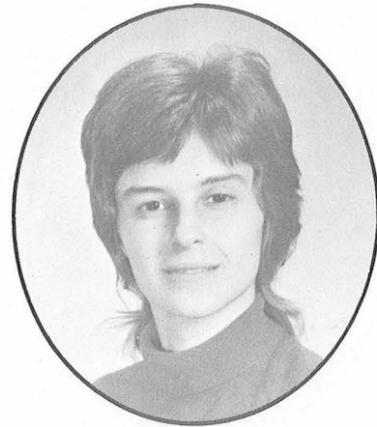
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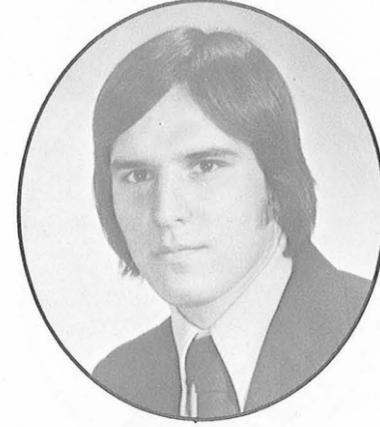
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Meredith McBrien
23, Married
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Rho Chi
SAPhA



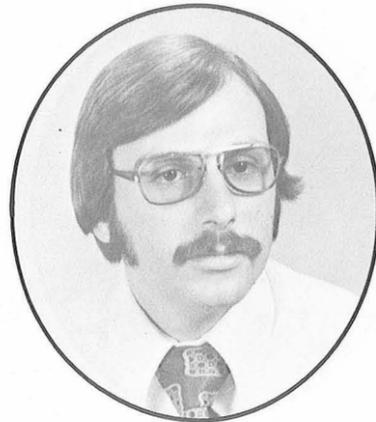
Christopher Higgin



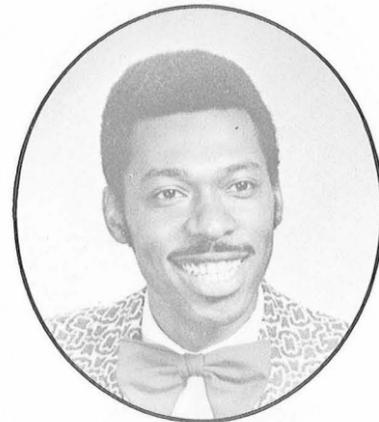
Richard C. Martin
32, Single
Community Practice
SAPhA
NARD



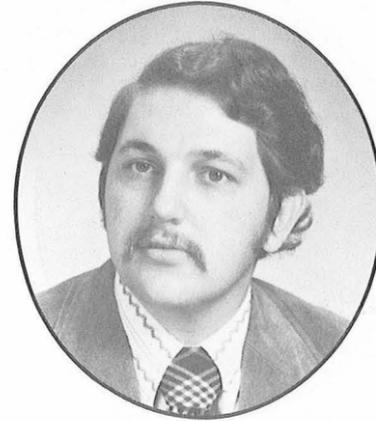
Shadia Mishiriki



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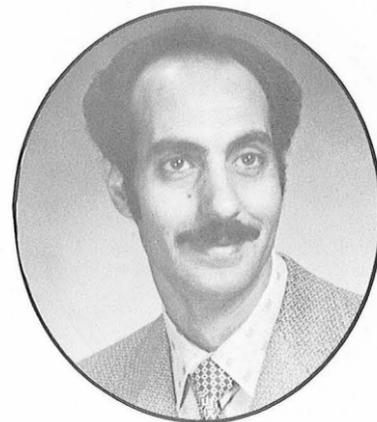
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Clerkship



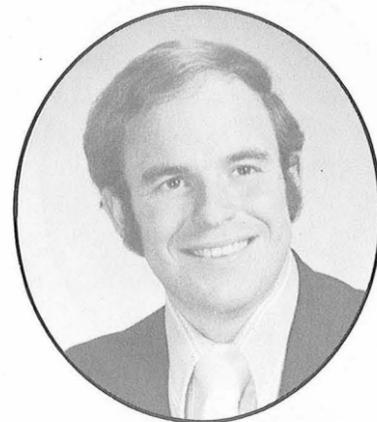
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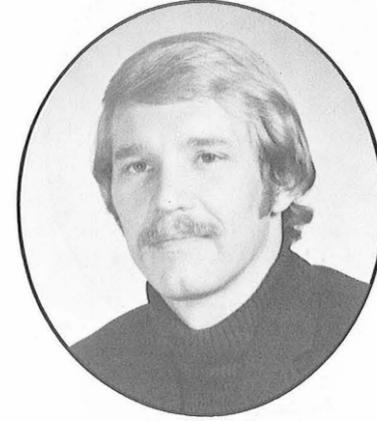
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Mohammad Odeh



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SAPhA President
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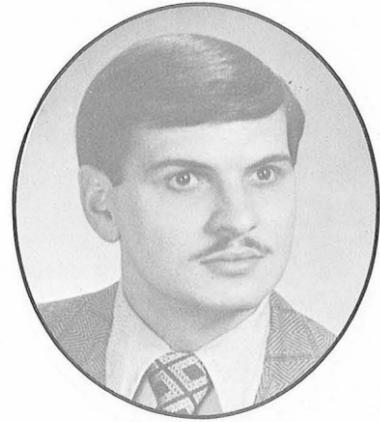
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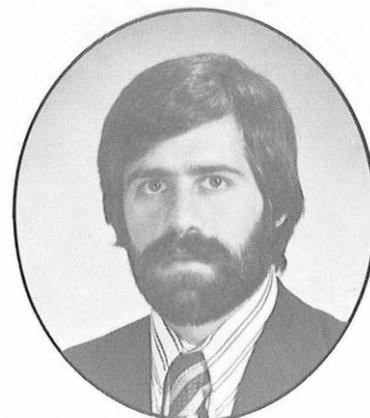
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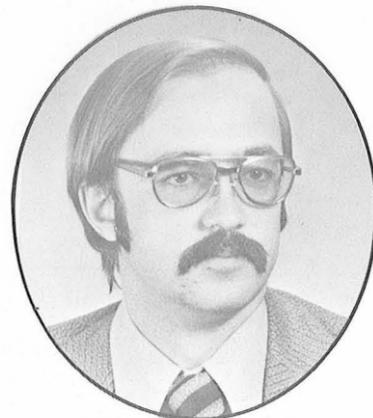
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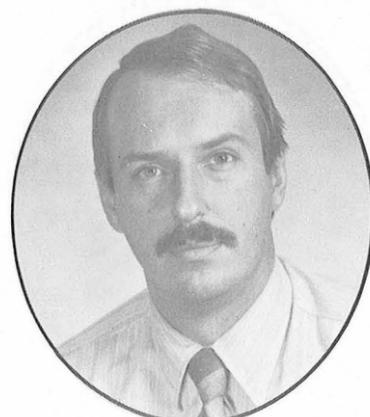
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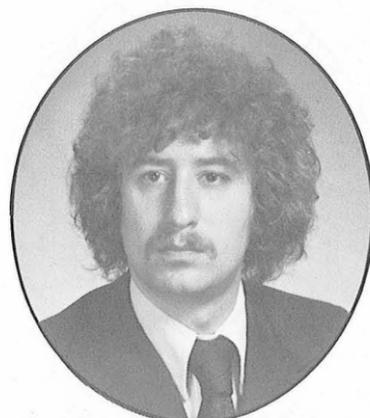
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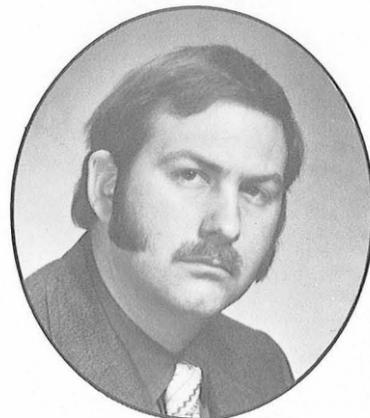
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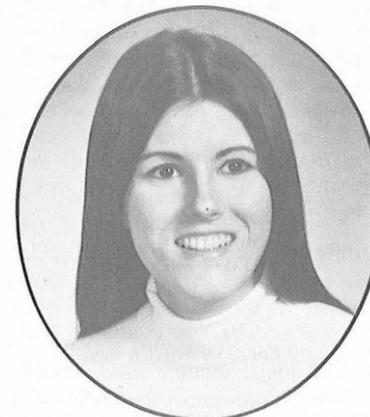
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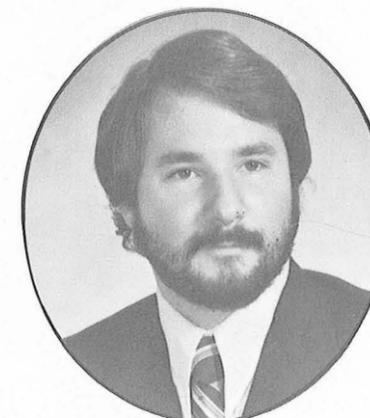
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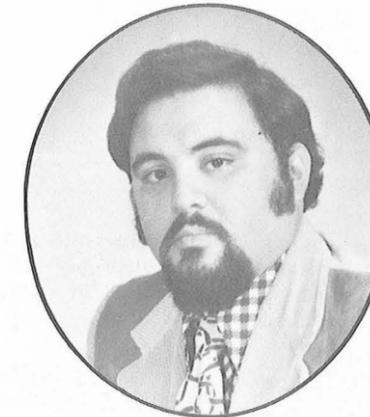
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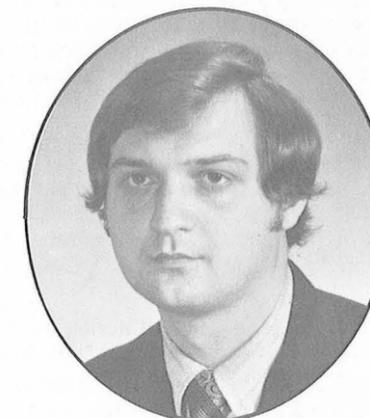
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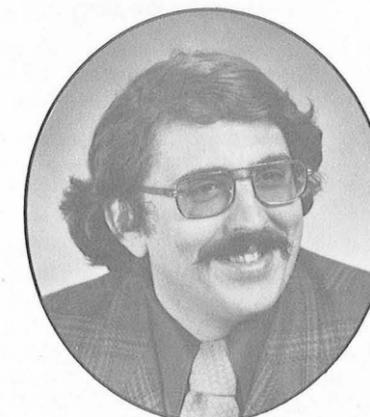
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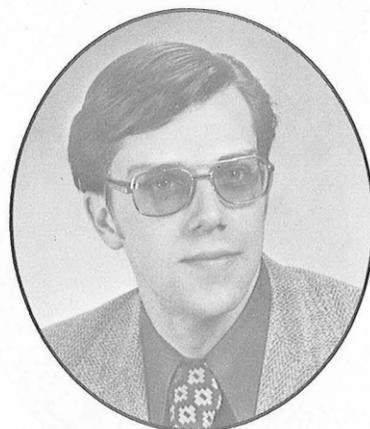
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WHICH WAY IS PHARMACY GOING?



RELEVANCY OF THE PHARMACY PROGRAM

I interviewed two recently registered pharmacists who work in hospitals in the Detroit Metropolitan area to find their opinion of the pharmacy curriculum as it pertains to their professional role.

Ronald Alexander graduated in June 1973 and had military pharmacy experience prior to schooling. He is continuing his education and has assumed the role of a pharmacist with ease and insight. He works at Bi-County Community Hospital where the pharmacy is involved in IV therapy, uni-dose and teaching. It has 250 beds and utilizes pharmacy technicians.

Mr. Alexander commented on the pure science courses (i.e., Dr. Dunker's Assay Class) and said that they were much needed because they taught technique and attention to detail. Also, certain aspects of the courses are applicable in any pharmacy setting.

Some of the viewpoints on the accounting and administration classes were: "the classes were very basic and too redundant for practical purposes; time should have been spent on third party payment, filling out insurance forms, use of the **National Drug Code** and drug substitution. The courses should be revamped to appeal to both retail and hospital settings with regard to the use of paperwork."

The dispensing lab was a sore spot with Mr. Alexander, and he had this to say about it: "Dispensing lab should be placed very early in a student's career, possibly the third year. As is, most habits and techniques have been set by the time the student reaches the fifth year. This would also be a good opportunity to bring in accounting and insurance forms along with the patient profile."

Some of the better courses that Mr. Alexander took were: Dr. Dunker's Organic Medicinals class, because it was relevant; Dr. Nagwekar's Bio-pharmaceutics was excellent, and OTC provided a lot of good background information.

Ron felt Public Health was a complete waste of ten weeks, as it stood then. It dealt with too much political structure to be applicable. Pharmacognosy was very, very questionable in its relevancy to the student and practicing professional. Mr. Alexander felt the material was boring and that he could have gotten more information out of the textbook on his own.

Ron feels the curriculum "should incorporate a clinical type of atmosphere where you deal with the patients, disease and medications more than with the textbooks." He feels the techniques in making proper, sterile IV's should be taught. He says the school of pharmacy should control the last six months of internship, placing the student in realistic situations. Using this co-op arrangement, the student could then take his pharmacy exams upon graduation and become registered. Ron thinks prognosis of disease should be gone into more depth and at an earlier time in the school curriculum than is now being done. He also feels the faculty should get into the field more often to find out what is relevant for the students.

Gary Marsee graduated in June 1973 and interned while going to school. He has taken over as a hospital pharmacist with knowledge and confidence. He works at Mt. Carmel Hospital where the pharmacy is involved with a partial uni-dose system and teaching. It has 560 beds and utilizes pharmacy technicians.

Mr. Marsee feels that the pure science classes are pertinent because they teach organization and attention to detail.

He stated that the accounting classes were very poorly structured. They offered some good subject matter and background information, but the material was poorly delivered. He feels the courses should be revamped to become more relevant and interesting.

Mr. Marsee said the dispensing lab should be eliminated or condensed. The lab stressed the wrong things, like the compounding of drugs that are outdated. The course should be moved to an earlier spot in the curriculum because as it stands, the lab comes too late to be effective and relative.

The most outstanding classes that Mr. Marsee felt he took were Pharmacology and Pharmacotherapeutics, because they proved to be interesting and applicable.

Gary said the worst courses he had were Marketing and Accounting because they were irrelevant with the information they dealt with. Public Health was poor because of the statistics they stressed that meant nothing to the student.

Gary felt the curriculum could be changed to provide the student with a more realistic setting. He thinks "the school should have a hospital pharmacy course to go over the problems the hospital pharmacist faces. The school offers a hospital course now that stresses the clinical aspect. This is nice, but Pharmacists cannot practice this method all the time since they now function in different ways." Gary also feels the faculty should get out and see how things are done in the field. They should talk with practicing pharmacists and find out what's happening. If they did this, then, perhaps, they could relate relevant information to the student.

John W. Hayden

ADVANCING PROFESSIONAL PRACTICE

On February 19, 1974, the 21st Annual Stephen Wilson Seminar with its theme "Advancing Professional Practice" sought to display several areas of current and proposed methods and programs to advance the professional practice of pharmacy.

The first speaker was Dr. Kenneth Schoof from Detroit's Lafayette Clinic who spoke on the "Control of Unintentional Drug Abuse" based on his experiences with the Polydrug Unit for non-heroin abusers at Harper Hospital. He defined "poly-drug abuse" as

- 1) the use of other drugs in conjunction with opiates.
- 2) the non-opiate drug use; i.e., recreational or anxiety-relieving abuse (including alcohol abuse).
- 3) the overuse of medically prescribed drugs.

The Polydrug Unit was established primarily to detoxify in an inpatient voluntary program — and not to foster another "treatment" program. Dr. Schoof stated that this problem of self-destructive drug abuse is an ignored area, but one with several possible solutions. He emphasized a need for a better understanding of the problem and, even more importantly, its cause. Physicians would do well to review the prescribing practices; it is better to talk ten minutes to the patient than to give a cursory talk and a prescription. The pharmaceutical manufacturers might reorient themselves along more of a society orientation. Pharmacists might become more involved in patient consultation and drug information, utilizing patient profiles and screening of prescriptions and drug usage, and attempting better contact with the physician. Dr. Schoof concluded, stressing that it is the factors within the medical-related practices which foster abuse that should be carefully examined and corrected.

The second speaker of the morning session was David K. Solomon, Pharm.D. and Assistant Director for Clinical Services of the Appalachian Regional Hospitals Central Pharmaceutical Service. He spoke on "Pharmacy Consults for the Chronically Ill" and included aspects from both sides of the pharmacy counter. From the patient's side there is the need for instilling the importance of taking the drug, how to correctly administer it, and other general but often neglected aids to increase compliance and to reduce errors in drug usage. From the pharmacist's side of the counter there are several techniques to utilize in order to develop the important effective communication for the above mentioned goals: begin to look at the world from the other person's viewpoint, pick up non-verbal communication clues, develop a therapeutic climate, maintain eye contact, utilize tactfulness, empathy, trust, and confidentiality, and realize that in communication, information is not a one-way street.

Dr. Solomon enumerated several programs and illustrated their effectiveness in the Appalachian Regional Hospital system. One such program was an in-use patient profile system and protocol. In his detailed presentation he utilized (1) a sample drug sheet for the patient — on hydrochlorothiazide — which explains the drug's actions and lists several instructions as cautions/aids; (2) an attached form on which the pharmacist can fill in additional information for the patient as reinforcement of the verbal consultation, and (3) even an appointment card for renewal of the prescription (and if required, blood pressure check). He described simple means of fostering a return of "the family pharmacist" with his interest and concern for people — means such as the use of the rubric on the drug information sheets: "Contact your pharmacist or physician if you have any problems about your medicine." (Note the use

of "your pharmacist".) Dr. Solomon also talked about financing such services and quoted from the Dichter Report which states that the consumer will pay if he knows about what services are available and if he receives them. But it is the pharmacist who must communicate and provide the services.

The afternoon session was opened by Gerald E. Schumacher, Pharm.D., Ph.D., Director of Clinical Education and Research Programs, and Associate Professor of Pharmaceutics at Wayne State University. Dr. Schumacher's presentation, "Realities in Drug Product Selection," began with a brief review of the positions of various organizations on drug product selection by pharmacists. He then surveyed the various reasons that pharmacists themselves oppose the concept and placed these reasons in perspective. Dr. Schumacher feels that many of these arguments are not valid, but that lack of bioavailability data and lack of clinical experience are two major handicaps to the pharmacist's ability to select the drug product. After a discussion comparing various current approaches to implementing drug product selection, he reviewed bioavailability in some detail.

Bioavailability as a parameter of drug product selection is significant but may be overrated at times and confusing due to a (witting or unwitting) lack of complete or empirically sound data, when it is made available to the pharmacist. The problem is that the practitioner may be provided with data that can bias his evaluation of the proper drug product selection. Dr. Schumacher feels that the pharmacist has the right to such data in order to properly evaluate one product over another, and he listed what necessary data should be requested of the manufacturer. He also shed some light on practical considerations regarding bioavailability such as brand-interchange during the course of therapy.

The practicing pharmacist should avail himself of all tools within his reach to make sound evaluations in drug product selection, but should also realize his limitations and try to fill the gaps wherever he can.

Richard E. Johnson, Ph.D., Associate Professor of Pharmacy Administration of the School of Pharmacy at Oregon State University finished the afternoon with some considerations from the administrative viewpoint. He spoke on "Economic Factors Influencing Pharmacy Staffing Patterns." He emphasized that staffing patterns are directly proportional to the pharmacy services provided. The aim of improving the economic factors regarding these staffing patterns was defined as a search for greater efficiency — that is, decreasing or maintaining moderate costs while increasing or maintaining services. He pointed out that new decisions would spring up as a result in this greater efficiency. For example, with greater efficiency and more free time, what newer roles and activities can be initiated? And with decreasing dispensing costs, how can the newly supplementary income be utilized?

Dr. Johnson discussed methods for increasing efficiency: improving the extent, composition, and distribution of demand for pharmaceutical services such that the distribution of staffing is not inversely proportional to the peak demand levels. The attempt to level out the "peaks and valleys" of demand periods could be furthered by the use of (1) supportive personnel, (2) the recently available "technologies" (or mechanical devices such as pre-packaging machines), (3) better pharmacy layout and design, and (4) more appropriate staffing patterns so as to achieve maximal pharmacist utilization — whether in the traditional dispensing, supervisory functions or in expanding roles and functions available by way of the newly created time salvaged from inefficient staffing.

Health care is being carefully examined and consumerism is a force determined to obtain the best care possible. Hopefully many of the concepts presented in this year's Stephen Wilson Seminar will indeed further promote better health care by "Advancing Professional Practice."

Michael DePetris

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