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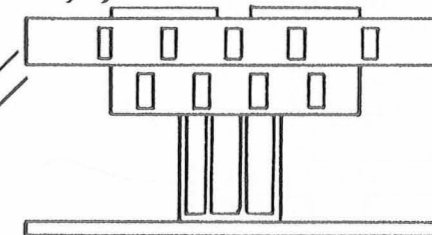


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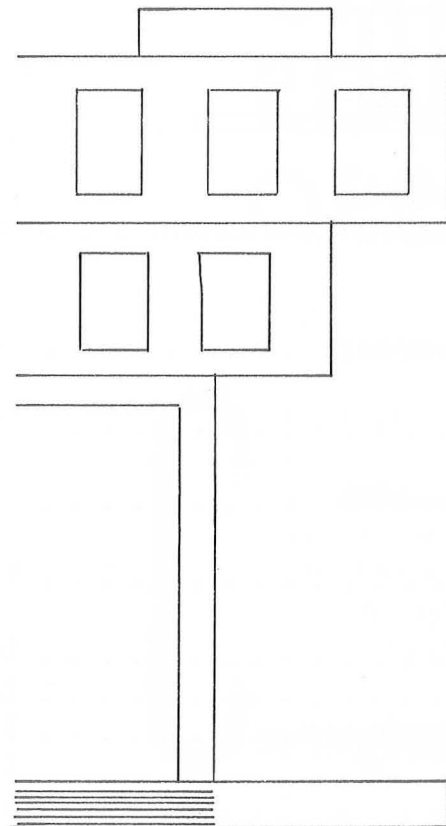
The WAYNE PHARMIC

VOLUME 12

1968

NUMBER 1

The Wayne Pharmic is the official publication of Wayne State University College of Pharmacy, written by, for, and about pharmacy students and graduates.



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COVER:

A "Mod" design incorporating the mortar and pestle as a symbol of pharmacy with the Wayne Centennial Seal.

THANK YOU:

The Wayne Pharmic staff wishes to extend their appreciation to Dr. Dunker for his invaluable assistance in forming this publication.

NOTE:

Anyone wishing to join the Wayne Pharmic staff next year, please leave name, address, and position desired in the Wayne Pharmic mailbox in the office, 309 Shapiro.



FROM the DEAN'S DESK

The Revised Undergraduate Curriculum

Dean Martin Barr

participate effectively in community affairs. This is partially accomplished by providing the greatest possible opportunity to partake of the social sciences and humanities.

2. The program should prepare all students for the responsibilities of licensure as a pharmacist by means of an irreducible common core of courses. The specific objectives of such a core are as follows:

a) To provide a basic understanding of the biological and physical sciences.

b) To develop the ability to compound medications and prepare drugs in forms which are not commercially available.

c) To develop the ability to communicate effectively to laymen, and to other health practitioners, authoritative pharmaceutical information and basic pharmacological information.

d) To provide a basic understanding of established standards of strength and purity of drug products as well as of the control procedures used to determine these standards.

e) To provide an understanding of the responsibility involved in the control of the distribution of drugs.

f) To develop sound problem-solving abilities which may be used to identify and solve practical pharmacy problems.

g) To develop the ability to administer and manage a professional pharmacy practice.

3. The program should offer sufficient flexibility to allow for the selection by the student of additional specialized course work to supplement the core program.

Plan of Revision of the Curriculum

To accomplish the stated objectives presented a formidable challenge. In the belief that the large majority of the College's graduates would continue to enter professional practice, either in the community or in a hospital or related health-care facility, or both, the aim of the faculty was to prepare this group for potentially superior performance in developing new opportunities for total professional service by the pharmacist as a member of the patient-care team. On the other hand, there has been a small but steadily increasing number of students in pharmacy whose career plans lie, not in professional practice, but in work in the pharmaceutical sciences in industry, government, profes-

sional associations and education, either upon completion of the Bachelor of Science degree or after additional graduate study; our aim was to accommodate this group also. For both groups the aim was to permit some degree of specialization for their chosen career area. It was agreed to establish a minimum common core of courses to be required of all students for the Bachelor of Science degree and to supplement this core with three broad options: one in Professional Practice (either community or hospital), a second in Industrial Practice, and a third in Pre-Graduate Study. Students will select their option at the completion of the fourth year of study and will select appropriate professional electives (a minimum of 12 q-c-h) for study during the fifth year in order to achieve their specialization objectives.

The Core Curriculum and Program Options

A total of 233 q.c.h. in the five years of study will be required for graduation, similar to that presently required. Of these, 197 hours will be taken by the core curriculum. A total of 78 q.c.h. will be taken in the College of Liberal Arts (English, Biology, mathematics, chemistry, physics, economics, political science, anatomy, physiology, bacteriology, etc.). Professional courses in the College of Pharmacy comprise 119 q.c.h.

Elective courses comprise 36 q.c.h. of the curriculum. Of these 24 q.c.h. are required electives in the humanities and social sciences; 12 q.c.h. are professional electives and will be selected based on the student's choice of specialization option as was previously discussed. An informal committee consisting of the chairmen of the various departments in the humanities and social sciences of the University has aided the faculty in preparing a broad listing of courses in their areas from which it will be suggested the students select their electives.

Course Changes and Innovations in the Core Curriculum

It should be emphasized that the changes made in the curriculum are great indeed, and, as those of many other forward-looking schools of phar-

(Continued on Page 11)

On November 22, 1967, the faculty of the College of Pharmacy unanimously approved a revised five-year undergraduate curriculum leading to the degree of Bachelor of Science in Pharmacy. The curriculum is to be effective for students who are scheduled to graduate in June 1971, or thereafter, i.e., students who are in the first, second, or third year of study in pharmacy in 1968-69. (Students who are scheduled to graduate in June or December 1970, or before, will continue on the present curriculum, i.e., students who are in the fourth or fifth year of study in 1968-69).

The revised curriculum is an effort by the College of Pharmacy to provide, within the confines of the five-year program, a course of study to meet the needs of the pharmacist of today and of tomorrow as it sees them. It represents several years of study and deliberation by our faculty, accompanied by hours of discussion and debate on observable trends in professional practice and their implications for the future. As part of the study, conferences were held with individual students and alumni and an all-college student body meeting was held to discuss the curriculum study. Several meetings were also held by the Dean and the Dean's Liaison Committee in considering the revisions.

Objectives of the Curriculum

The revised curriculum was drafted based on the general concept that the pharmacist of the future must be more disease and patient oriented than heretofore, in addition to being product oriented, if he is to be better prepared to meet the challenges of future patterns of patient care, a philosophy shared by the great majority of pharmaceutical educators.

The objectives of the revised curriculum are as follows:

1. The program should produce an educated man, an individual able to

Fifteenth Annual Stephen Wilson Seminar

Rosemary Bonnette

Drug use and abuse and its implications for the profession of pharmacy was the theme of the 15th annual Stephen Wilson Seminar. Co-sponsored by the Wayne State College of Pharmacy and the Pharmacy Alumni Association, the seminar of February 27, 1968 was held in the Community Arts Auditorium and Alumni House, under the direction of General Chairman, Raymond Dauphinais, LL.M., R.Ph. Presiding at the various sessions were: Charles C. Baumann, R.Ph., president of the MSPA; Donald Stocks, R.Ph., president of the Pharmacy Alumni Association; Ervin Galdecki, R.Ph., president of Wayne County Pharmaceutical Council; and Martin Barr, Ph.D., R.Ph., Dean of the College of Pharmacy.



Shown (l to r) are, George J. Cosmides, Dr. Martin Barr, Charles M. Covington, Raymond J. Dauphinais, and Dr. G. Victor Rossi.

The general problem of addiction and habituation was discussed by Elliot Luby, M.D., Professor of Psychiatry at WSU. Drug use has existed for ages, but the excessive use, i.e., abuse of drugs, is peculiar to our time. Forms of drug abuse include addiction or habituation to morphine-type narcotics, cocaine-type stimulants, hallucinogens, and most commonly to amphetamines and depressants.

Dr. Luby feels that, of the various drugs, LSD is the drug evoking most concern, due to its popularity in the press and the serious effects it causes. Although motives for use of such drugs differ with the class of society using them, "the common denominator under all youth addicts is the universal feeling of helplessness". LSD provides youth with the "strength" to be his own master. Yet, according to Dr. Luby, there is no reason to despair over the supposedly spreading use of these drugs, for he is confident that the young with proper guidance will adopt more realistic devices for coping with their problems.

A. Martin Lerner, M.D., Professor of Medicine at WSU School of Medicine, spoke on the medical results of drug abuse. Addiction, for the most part, begins and ends early in life, thus occupying the most productive life-

time years. Dr. Lerner continually emphasized that prevention is the most important aspect of addiction control, since medical treatment is uniformly unsuccessful or comes too late. Hope lies in education, the dissemination of information, and the ability to communicate with drug addicts by learning their language.

Dr. Lerner pointed out that different types of drug abuse appear in cycles with the possibility of "fadism" occurring. He illustrated this hypothesis with an example of paregoric, the abuse of which, in Detroit, showed a steady rise from 1955 to 1963 (up to 70 per cent of all drug abuse cases reported), and then a drop to 3 per cent in 1965 after the classification of paregoric as a prescription-legend drug.

"The Hazards of Psychotropic Drugs" was the topic discussed by G. Victor Rossi, Ph.D., R.Ph., Director of the Department of Biological Sciences at Philadelphia College of Pharmacy and Science. Nearly every culture has used some type of substance to achieve a "chemically induced glimpse of paradise". This common occurrence is enhanced in our society by the ready availability of potent hallucinogens, national crises, and our ever-questioning youth. Youth, according to Dr. Rossi, is faced with the problem of what can be done to shock adults as a defiance of authority. It has found psychedelic drugs to be an effective means of upsetting the leaders of the establishment.

Dr. Rossi spoke extensively on marijuana, the use of which yields results he considers inadequately described by our limited language. Dr. Rossi concluded that, though there may be a minimum physiological damage or possibly psychological dependence arising from the use of marijuana, the hazards of marijuana have been exaggerated, for it produces no tolerance or physical addiction.



Pharmacy Alumni President, Pharmacist Donald Stocks served as moderator at the noon session.

Sidney Dillick, Ph.D., Dean of the WSU School of Social Work, discussed social implications of drug abuse. He feels that drug abuse is a symptom of

the problems which exist in a person's life (e.g., pressure on youth, conflict with society, the need for security, curiosity, boredom) and, therefore, the normal solutions of police power or expulsions are not the proper cure for this situation.

Dr. Dillick pointed out that pharmacists have a responsibility to lead in efforts to clear up the many misconceptions involved with the use of drugs and to inform the public as to the social aspects of drug abuse. Pharmacists are in a unique position to do this because of their vantage point as a health professional, and the natural communication possible with members of the community.



Dr. Sidney Dillick, Dean, WSU School of Social Work, discussed Drug Abuse--Some Social Implications at the noon session.

The "uncontrolled use of drugs in a chemically-hazardous environment" was the topic presented by George J. Cosmides, Ph.D., R.Ph., of the National Institute of General Medical Sciences. Today's life is dependent on chemical technology to a great extent. Americans are more drug-oriented, and many drug users often become abusers. Members of the medical profession often prescribe drugs indiscriminately, with little regard for drug interactions, patient sensitivities, etc. Also, the possible synergistic or antagonistic effects of the wide variety of OTC drugs available are often ignored by the health profession. Couple the above drugs with industrial wastes, toxic fumes and air pollution, pesticides, and household products of questionable composition and you increase the health hazards in this chemically-oriented environment. Dr. Cosmides cited a division of the World Health Organization which studies methods of obtaining adverse drug information and toxicology information, to aid in the computerized handling of national health as a step in the control of our chemical environment.

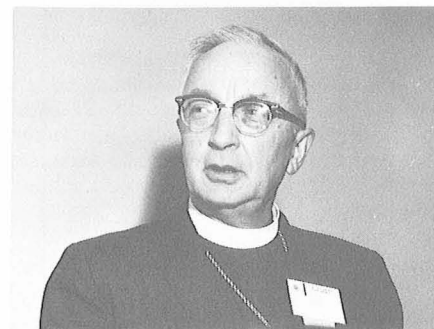
The sociological view of drug use and abuse was the topic of a paper by Mel Ravitz, Detroit City Councilman, and Professor of Sociology at WSU. Councilman Ravitz holds the view that it is not possible to eliminate non-medical use of drugs in the near future. Drugs are presently the "in-thing" for the young, representing a rebellion against the established social order. And drug use cannot be well-regulated. Presently

an inconsistency exists between the use of drugs as compared to the use of alcohol, thus placing a credibility gap on other aspects of our culture. But it is debatable whether the liberalization of drug laws (e.g., legalization of marijuana) would decrease drug use and related crimes, for this seemed to have no beneficial effects in England.

Councilman Ravitz feels that drug use offers evidence of the failure of the community to integrate the individual into community life. Thus we must amend the laws to assist addicts medically and to protect society more effectively. "The manner in which we approach this problem is the key to the degree of drug abuse."

The Right Reverend Richard S. Emrich, Episcopal Bishop of the Diocese of Michigan, discussed the foundation of moral law with observations on drug addiction and habituation. He emphasized that, in order to make moral judgments of certain actions, you must consider whether the act is natural or reasonable, based on the following considerations:

- 1) is the goal of an object fulfilled, or frustrated (e.g., the use of drugs for their therapeutic effect is considered morally good, and vice versa)?
- 2) are the overall results of an action in accordance with, or contrary to the nature of an object?
- 3) are there any uniformities or similarities in history?



The Right Reverend Bishop Richard S. Emrich, discussed the problem of drug addiction from the theological viewpoint.

Charles Covington, Manager of Pharmacy Affairs for Smith, Kline and French Laboratories presented the rationale for the drug abuse education program sponsored by SKF. Drug-induced problems are largely the result of ignorance—either from no information about drugs, or from misinformation about their use and abuse reported in the news media. Thus, it is important to make available some sort of drug education and to propagate it within the community before the drug abuse problem can be solved.

Mr. Covington feels that responsible professional people must do all possible to present accurate and understandable information, while avoiding preaching and sermonizing. Of course, some individuals are prone to abuse no matter

what is done, short of intensified psychiatric care.



The Community Arts Auditorium filled to capacity.

Approaches to the solution of the drug abuse program include enforcement, treatment, and education. As was earlier pointed out, enforcement may halt the crime of the abuser, but it does little to rehabilitate the abuser. Similarly, medical treatment is rather ineffective as Dr. Lerner pointed out. Education and prevention seem to be the most significant answers to the drug abuse problem.

The Smith, Kline and French drug abuse program was established at schools of pharmacy, with pharmacy students prepared to present a balanced account of the facts relative to drug use and abuse. Such college programs, characterized by the lack of "preaching", often lead to other programs at the high school level. In conclusion, Mr. Covington pointed out that there will definitely be drug education in the future—now is the time for pharmacists to step in and take their proper place with the other health professionals to present their knowledge of drugs to the public, for the common good.

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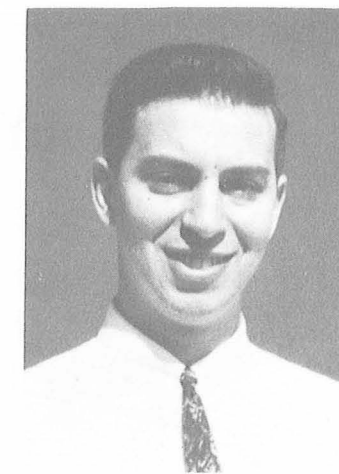
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The youthful face, the lab coat that doesn't quite fit, and an idealistic outlook on teaching are the first characteristics you notice about Hanley N. Abramson, the College of Pharmacy's newest faculty member.

A native Detroiter, Dr. Abramson attended Central High School before coming to Wayne in 1958. He graduated in 1962 and went on to the University of Michigan to do his graduate work under Professor Burckhalter. He did his research on the synthesis of heterocyclic steroids. He graduated in 1966 and won a post doctoral fellowship from the National Science Foundation for a year's study at Hebrew University in Jerusalem.

It was not, however, all study for Dr. Abramson, in that he found time to get married. His wife, Young Hee, then at the University of Missouri working on a Master's in Inorganic Chemistry, came to Jerusalem where they were married.

With all this knowledge of chemistry, one might think the conversation would be more like a seminar, but Dr. Abramson insists that he and his wife don't talk shop around the house. He feels his

(Continued on Page 23)

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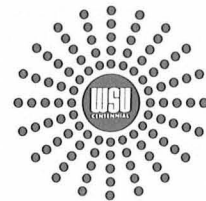
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GRADUATING

SENIORS

1968

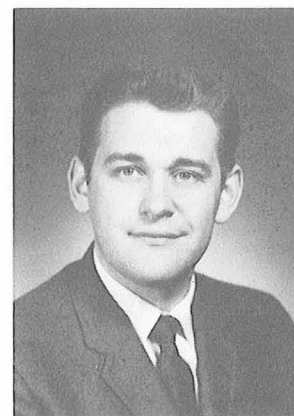


In June 1968, Wayne State University College of Pharmacy will graduate thirty five pharmacists. The members of this graduating class have struggled together through the five years of school and are ready and willing to enter the profession. Most students have a sincere desire to improve the profession, keep up with changing trends in the practice of pharmacy, and maintain membership in the professional organization APhA-MSPA.

Many of the June graduates are entering community pharmacy, but almost an equal number are interested in hospital practice. Twenty per cent of the class is made up of women and over fifty per cent of the class members are married.



Donald R. Albers will be 26 in June. He is planning to be married this summer. He has participated in APhA and Monteith College while at WSU. He has a citizen's band radio. He will enter community pharmacy.



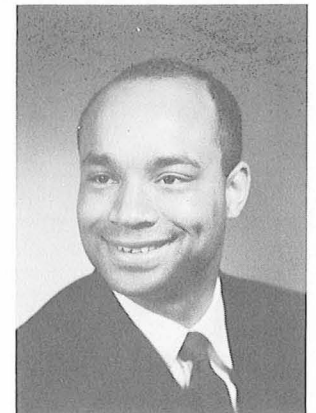
Gerald I. Bollman, 28, is married and has one daughter. He belongs to APhA and plans to enter community pharmacy and someday own his own store.



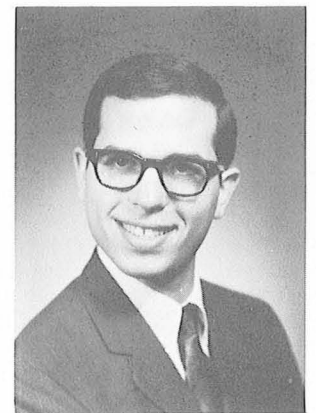
Susan M. Chenevert has been very active in the College of Pharmacy. She is a member of the Student Advisory Board, President of Rho Chi Society, publication coordinator of the Wayne Pharmic, and treasurer of APhA. Sue is 23 and single. She plans to enter hospital pharmacy and perhaps attend graduate school in the area of hospital and clinical pharmacy.



Philip E. Cole is 24, single, and a member of APhA, Kappa Psi (past regent), staff of Wayne Pharmic. He has belonged to WSU Men's Glee Club and participated in Bonstelle and church sponsored plays. He is interested in hospital pharmacy.



Ronald S. Coleman, 25, is married and has one son. He has belonged to the APhA and Alpha Phi Alpha. While he is also a licensed mortician, he plans to enter community pharmacy.



Ronald S. Columbus, 23, is married. He has participated in APhA, Rho Pi Phi, and has been business manager of the Wayne Pharmic. He is also a member of the American Chemical Society. He plans to practice in a community pharmacy.



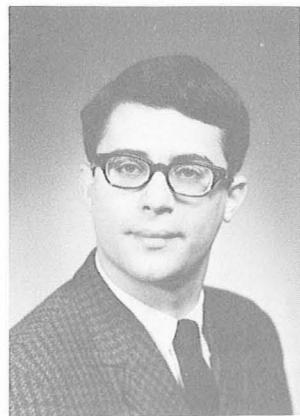
Herbert E. DeLong is also married and has a daughter 12, and two sons, 8 and 2. He is a member of the APhA, Phi Delta Chi, and of the Detroit Police Department. He plans to use his pharmacy education in the Police Crime Lab along with practice in hospital pharmacy.



Judith C. Gerometta, 24, is getting married in September to another member of the graduating senior class, Ron Paul. In pharmacy school, she has been a member of APhA, Student Advisory Board, and president of Lambda Kappa Sigma. She also participated in WSU Concert and Marching Band. She plans to enter hospital pharmacy.



Donald C. Gitersonke is 30 years old and married. He is a member of APhA and Kappa Psi. He plans to enter hospital pharmacy.



Ernest L. Gurwich has been active in APhA, Wayne Pharmic (co-editor), Alpha Zeta Omega (president) and Student Advisory Board. He has also participated in the Student Health Organization Jeffries clinic. He is 23, married, and plans to enter graduate school at WSU in the area of pharmacology and hospital pharmacy.



J. Yale Hechtman, 26, is single. He is a member of the APhA, Rho Pi Phi, photographer for the Wayne Pharmic, and member of the Student Advisory Board. He also belongs to Alpha Epsilon Pi. He plans to enter community pharmacy.



Gary L. Ingram has served as member of APhA (president), Phi Delta Chi, Student Advisory Board, and Wayne Pharmic. He is 24, married, and plans to enter community pharmacy.



Dennis M. Kenealy, 23, is single. He is interested in hospital pharmacy and may enter law school. While in pharmacy school, he has participated in APhA, Phi Delta Chi, and Wayne Pharmic.



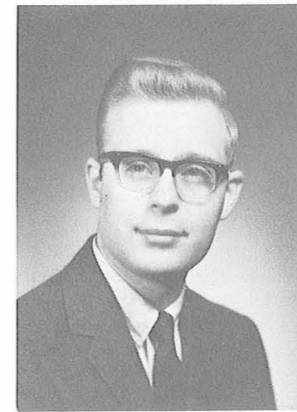
Elizabeth A. Kereji, also plans to enter hospital pharmacy. She is 24, single, and a member of APhA.



Harvey F. Klein is 22 and single. He is a member of Alpha Zeta Omega and APhA. He plans to enter community pharmacy possibly out of the state. He is also considering graduate school.



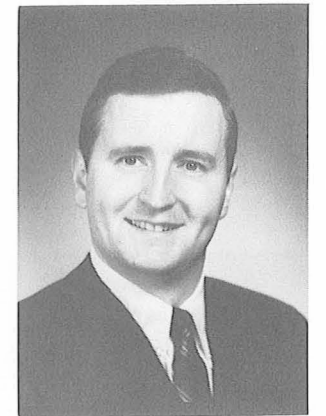
Allen G. Mousty has been active in the organizations APhA, Student Advisory Board, and Kappa Psi. He is 24, married and has also belonged to the WSU Sailing Club. He plans to enter hospital pharmacy.



Paul J. Munzenberger, 24, is planning to be married this summer. He has served as president of Student Advisory Board, and belonged to APhA, and Phi Delta Chi. He plans to enter graduate school at WSU in the area of hospital and clinical pharmacy.



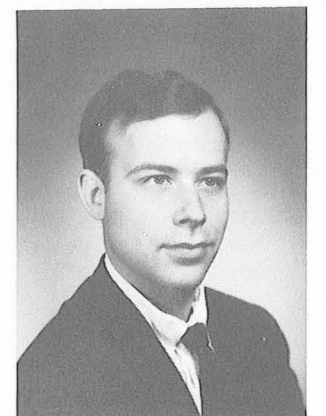
Alan M. Passerman, 26, is married and has belonged to APhA and Rho Pi Phi. He is considering both hospital and community pharmacy.



Ron W. Paul has been a member of APhA and is interested in both hospital and community pharmacy. He is 25 and in September will marry Judy Gerometta, also a graduating senior.



Joseph E. Ponchart, 25, is married and has one child. He has been a member of APhA and Kappa Psi. He will enter community pharmacy.



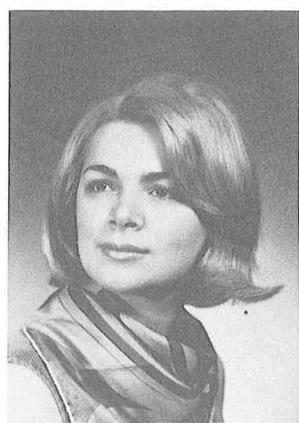
A. Mike Preuss, 24, is planning to get married this summer. He has participated in APhA, Kappa Psi, and also has a pilot's license. He plans to practice in community pharmacy.



Kathleen T. Price will be 22. She is married and has one child. She is a member of APhA, Lambda Kappa Sigma, and Student Advisory Board. She plans to enter community pharmacy.



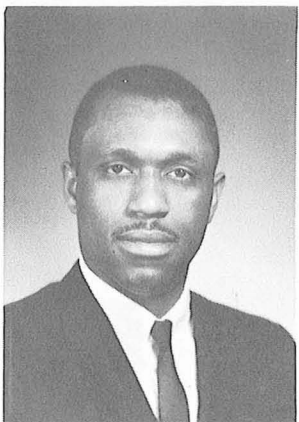
William C. Robinson is a member of many pharmaceutical organizations including APhA, Phi Delta Chi, Student Advisory Board, Detroit Pharmaceutical Association. He plans to be married in June. He is 25 and will practice in a hospital pharmacy.



Susanne K. Rosenberger has been active in APhA, Lambda Kappa Sigma and also participated in Associated Women Students, Student Health Organization, and Alpha Delta Theta. She is 21, single, and plans to enter the field of medicine or pharmaceutical industry.



Gerald A. Savel is 23, and single. He has been a member of APhA and Kappa Psi and will enter either hospital or community pharmacy.



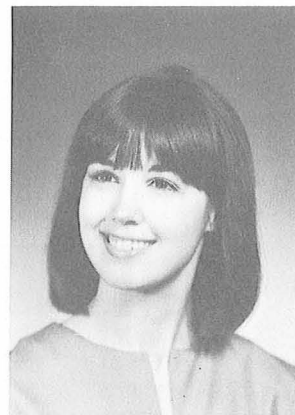
Chester J. Scott plans to practice in both hospital and professional community pharmacy. He is 28 and married. While attending WSU, he has been a member of APhA and Wesley Society.



Sandra Sharrard, is co-editor of the Wayne Pharmic, vice-president of Rho Chi Society, and recording secretary of APhA. She is 23, single, and plans to practice pharmacy in Arizona.



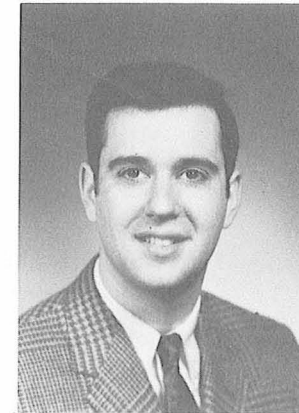
James E. Uren, 24, is married and an active member of APhA and Phi Delta Chi. He plans to practice in community pharmacy and attend graduate school in pharmacology.



Pamela D. Vener has been a member of APhA, Wayne Pharmic, and also Alpha Delta Pi, Dance Workshop, and USO dance team. She is 22, married, and plans to practice community pharmacy.



James A. Wallace, 23, is married and has participated in APhA and Phi Delta Chi. He plans to attend dental school in Ohio.



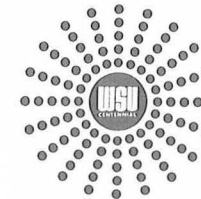
CAMERA SHY

Melvin D. Boyer has participated in Rho Pi Phi and Sigma Alpha Mu while attending WSU. He is single, 26, and enjoys sports. He plans to practice in a community pharmacy upon graduation.

Harvey E. Williams, who is 23, and single, has been a member of APhA, Alpha Zeta Omega, Student Advisory Board, Wayne Pharmic and Student Health Organization Jeffries Clinic. He plans to enter community pharmacy and is considering graduate school.

Ronald J. Ponichtcher has been involved in many activities in the College of Pharmacy such as APhA, Student Advisory Board, Phi Delta Chi, Wayne Pharmic. He also served one year as representative to the Student Faculty Council. He is 24, single, and plans to enter hospital or community practice when he finishes a term of duty with the navy or marine corps.

Timothy G. Redman is an active member of APhA (vice president) and Phi Delta Chi. He also belongs to Navy Reserves and plans to serve for two years after graduation. He is 22, married, and plans to enter community pharmacy.



FROM the DEAN'S DESK

(Continued from Page 3)

macy, are quite revolutionary when contrasted to the stereotyped curricula of the past decades. Among the many changes (there is no course that has not been significantly altered), new core courses have been added to the curriculum including the following: Introduction to the Pharmaceutical Sciences, Non - Prescription Medications, Introduction to Pathologic States and Processes, a second course in Pharmaceutical Biochemistry, Pharmaceutical Services in Health-Care Facilities, Biopharmaceutics and Clinical Pharmacy.

New Professional Electives

No attempt will be made to elaborate on each new professional elective now available in the curriculum for selection by students as part of their option selection. These do include, however, the following courses, all to be available to students in the fifth year of study:

Health-Care Accessories and Appliances, Special Problems in Professional Practice, Sterile Products, Dermatological Preparations, Special Problems in Hospital Pharmacy Practice, Pharmaceutical Manufacturing, Elements of Pharmacy Quality Control, Pharmaceutical Product Development, Therapeutic Incompatibilities and Radiopharmacy.

Many of the above courses will be taught by clinical instructors. For example, an outstanding professional practitioner who has a fine surgical supply practice will teach much of the work in Health-Care Accessories and Appliances and several other outstanding practitioners will aid us in teaching Special Problems in Professional Practice. Several outstanding hospital pharmacy practitioners will instruct in Special Problems in Hospital Pharmacy Practice. We expect to have the services of several scientists from industry to aid in the courses in Pharmaceutical Manufacturing, Elements of Pharmacy Quality Control and Pharmaceutical Product Development.



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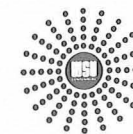
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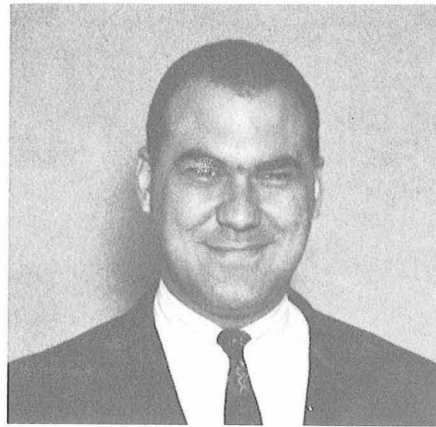
THE COLLEGE OF PHARMACY

DRUG ABUSE

Gary Fenn, Ph.D.

While the problem of drug abuse is certainly not a new one, it has captured the imagination and interest of both the public and those concerned with health care to an extent never before experienced. There has been a proliferation of information in the lay press as well as in the scientific literature focusing attention on this topic. Much of the impetus for this has been due to the somewhat sensational reports of the effects of the hallucinogens, such as mescaline, psilocibin, LSD, etc., and the unfortunate results of such activities as glue sniffing. The problem, however, is much more extensive than this and has prevailed since long before these agents were used. We find that many types of drugs are abused—this is not to say that they are all addicting, or even habituating, but are used for other than legitimate medical purposes.

Drug abuse falls into many categories. Perhaps the most serious type of drug abuse involves the use of narcotic drugs which produce both physical and psychological dependence in the user. The addict often ceases to be a useful member of society and is, therefore, of little value to himself or to his community. A detachment from society is also frequently noted in those who use the hallucinogenic drugs repeatedly. While the use of these types of drugs constitutes a serious problem, there are more insidious types of abuse that affect a much larger portion of the population. One of these is the abuse of stimulant and depressant drugs, obtained either by legal prescription orders or through illegitimate channels. The Drug Abuse Control Amendments of 1965 were passed in an attempt to limit the extent of this problem. The publicity created by the misuse of these various types of drugs has contributed greatly to what is perhaps the most serious of all drug abuse—the abuse of non-prescription drugs by our adolescent population. Non-prescription or OTC products are readily obtainable through a variety of channels of distribution, however, the community pharmacy is a major source. It is important, therefore, that the pharmacist recognize the potential for abuse in these products so that he may better fulfill his role in the protection of the public health. This may be difficult since most published information pertains to the action of drugs at normal dosage levels



and their side effects at these levels. The responses at higher dosage levels have seldom been studied extensively.

Some of the types of OTC products which are currently popular with adolescents include:

1. Volatile Organic Solvents—These agents, and products containing them, are being used by inhalation. The effects seem to be similar to those of alcohol intoxication and are subject to considerable individual variation. Hallucinations may occur but are usually of short duration. Irritation of the mucus membranes is common as are nausea, vomiting, tinnitus and dizziness. Additionally, liver damage is possible. Products of this type include acetone, nail polish remover, cleaning fluids, wart and corn removers, lighter fluid, glue, chloroform, ether and aerosol propellants.

2. Sedatives and Sleep Aids—These fall into two groups, the bromide preparations and those employing antihistamines and scopolamine. The former have been abused for many years, but are not particularly popular at present. Bromides produce a feeling of drowsiness and unconcern. Concentration is impaired and, after prolonged usage, mental confusion, motor incoordination, thick speech and dizziness occur. The danger in prolonged usage is due to the long biological half life of bromide—about 12 days—which results in a cumulative effect. Scopolamine produces a

state of apathy and drowsiness, however, this is often preceded by excitation, hallucinations and dis-orientation. Other effects are typical of the anticholinergics.

3. Cough, Cold and Allergy Preparations—These are commonly combinations of antihistamines, decongestants, and antitussives. The latter may be narcotic agents or non-narcotics such as dextromethorphan. Combinations of these agents, particularly in overdose, may produce unusual effects which are difficult to predict because of the varying effects of the drugs. For example, dextromethorphan acts as a central depressant in large doses whereas the decongestants are central stimulants. Antihistamines usually produce CNS depression but some may act as stimulants. The net effect, then, is extremely variable.

These three examples serve to illustrate the abuse potential of products considered to be relatively innocuous. The pharmacist should be aware of this potential and make every effort to control the use of such products and to educate the public as to their dangers. This can be done by making himself available to speak to church groups, PTA meetings and other groups of interested adults. The problem of educating the young people who use these agents is a difficult one since their very involvement in drug abuse may be a manifestation of their rejection of the authority and standards of the adult community. They are reluctant to listen to adults but are very responsive to young adults, only a few years their senior. This provides an excellent opportunity for pharmacy students to use their knowledge for public education. With this opportunity, however, goes the responsibility of being certain that the facts presented are correct and do not further confuse the issues. Excellent resource materials are found in the January issue of the Journal of the American Pharmaceutical Association and the bibliography appearing in the March issue. Here is an opportunity to further the ultimate objective of all health professionals, namely to improve the public health.

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GREEKS CORNER



PHI DELTA CHI

As one looks back over the past year, one can see how Phi Delta Chi influenced many of the events that occurred in and around the College of Pharmacy. This can be seen by the Alpha Eta men's participation in the Student APhA-MSPA Chapter and the Student Advisory Board of the College. In the APhA-MSPA, Gary Ingram served as president, Tim Redman as vice-president, and the rest of the chapter are also members. In the SAB, Paul Munzenberger served as the President, with Ron Ponichter (Vice-President), Gilbert Steiner, John Krohn, and Bill Robinson as members. The leadership of Phi Delta Chi is thus shown by the men active in the above organizations, not only as officers, but as active members of Phi Delta Chi.

The Alpha Eta Chapter of Phi Delta Chi was the host for the national convention of the fraternity this past December. The one hundred and ten delegates from all over the country were given a tour of Shapero Hall and of Wayne State's campus by our members. The delegates were much impressed with our building, facilities and our curriculum. The convention spurred a redecoration of the Chapter House on W. Delaware, making it the best kept frat house on Wayne's campus.

The executive board, responsible for much of the coordination of programs and the actual work for the 1967-68 school year, were: Mel Dailey ('67) and John Asher ('68)—(Presidents); Bill Robinson ('67) and Bob Deputat ('68)—(Vice-Presidents); Tim Redman (Treasurer); Ron Ponichter (Correspondent); John Krohn (Secretary); Jim Uren ('67) and Stu Bas ('68)—(Pledge Masters); Bob Deputat ('67) and Joe Morelli ('68)—(Assistant Pledge Masters); Stu Bas ('67) and Gil Steiner ('68)—(Alumni Correspondents); and John Asher ('67) and Mel Dailey ('68)—(Prelates); The Brothers of Phi Delta Chi thank each of these officers for their outstanding leadership.

Phi Delta Chi will be giving its scholarship awards this year again at the Spring Honors Convocation. The recipients of last year's awards were: Jack Cronk—(Alpha Eta Alumni Chapter Award); Dennis Kenealy (\$100 scholar-

ship for academic excellence); and Thomas Rolands (Man of the Year Award).

Three new members pledged this year. The three courageous men are: Ed Khoury, Walter Palmer, and Ken Wlasuk. Brothers Jim Uren and Bob Deputat are to be congratulated for their able supervision of the Fall pledge program.

In the line of displays, our Chapter made arrangements for Ciba's "Oldest Prescription Known" model to be displayed in Shapero Hall for two months during the Winter Quarter.

Last, but not least, Alpha Eta will be losing ten members this year through graduation. The June graduates will be: Herb DeLong, Gary Ingram, Dennis Kenealy, Paul Munzenberger, Ron Ponichter, Tim Redman, Bill Robinson, Jim Uren, and Jim Wallace. Mel Dailey will be an August graduate in business administration.

The brothers of Phi Delta Chi would like to express their thanks to Dr. Richard K. Mulvey, our Faculty Advisor and a Regional Director of Phi Delta Chi, for his guidance throughout the past year.

LAMBDA KAPPA SIGMA

The sisters of Lambda Kappa Sigma have spent another successful year in service to the College of Pharmacy. The major event of the 1967-68 year was a Hygeia Day program held in conjunction with our Omicron Alumnae chapter. On Hygeia Day (dedicated to the first woman pharmacist in Greek mythology), we presented a program entitled "The Pill", featuring Dr. Henry Wormser and Mrs. Lucille Cantone, who spoke, respectively, on the pharmacological and sociological aspects of the anti-fertility agents. The program was well received by the large, community-wide audience.

Another important event was the annual decal sale which has the two-fold goal of enhancing the professional image of pharmacy, and identifying the students and alumni of the College of Pharmacy.

Many Lambs served the college in non-sorority capacities. Alice Rice was the very capable and enthusiastic secretary of the SAB and editor of its newsletter. Sue Rosenberger was active in both the work and the defense of the Student Health Organization Clinic. Despite extra-cur-

ricular activities such as these, the Lambs have managed to maintain high scholastic averages with Judy Gerometta (chapter president), Eva Witczek (secretary), and Rosemary Bonnette (treasurer), receiving scholarships from various sources.

Additional members of Lambda Kappa Sigma this year were Joan Ovid (vice-president and pledge mother), Barbara Wilczynski (secretary), Karen Bahorski (decal chairman), Sue Schweitzer (SAB representative), and our two January initiates, Elaine Marshall and Marija Petrauskas.

Congratulations are in order for two of our sisters: Judy Gerometta on her recent engagement to Ron Paul (fifth-year pharmacy student), and Sue Schweitzer, who presented her husband, Stewart, with their first son, Maurice, on October 18, 1967.

In closing, we would like to bid a fond farewell to Judy Gerometta, Kay Price, and Sue Rosenberger, and extend to them the other graduating seniors of 1968 our best wishes for their future in pharmacy.

RHO PI PHI

The past year has been very productive for the Xi Chapter of the Rho Pi Phi fraternity. The Alumni chapter held its annual fund raising affair at Hazel Park Raceway and over four hundred attended. Plans for the next fund raising activity are for September and over five hundred people are expected to participate.

The officers for Rho Pi Phi have been J. Yale Hechtman (president), Ronald Columbus (vice president), Ed Malkin (treasurer, and Gary Marx (scribe). The new officers are Gary Marx (president), and Steve Zuckerman (vice president.)

The active members along with the alumni of Xi Chapter will serve as hosts for the Midwest Regional Convention of Rho Pi Phi International Fraternity in Detroit in May.

Those members of Rho Pi Phi who are graduating in June are Mel Boyer, Ron Columbus, J. Yale Hechtman, and Alan Passerman.

KAPPA PSI

During the past year, Kappa Psi has added five new members: Bob Ritter, John Loughner, Paul Zollers, Paul Krause, and Bob McKay. These Spring and Fall pledges have followed a difficult route, for Kappa Psi has a strong and long tradition in pledging. During this period in their fraternity lives, they are instilled with the merits and advantages of brotherhood.

The graduating seniors of Kappa Psi in June of 1968 will be Phil Cole, Don Giteronke, Al Mousty, Joe Ponchart, A. Mike Preuss, and Gerry Savel.

During the Christmas vacation, the men of Kappa Psi aided four needy families through a local Catholic agency, Harper House. The fraternity raised \$100 which was used to supplement aid from the Goodfellows to provide food, shoes, and toys. These visits to these homes to deliver these gifts provided an education and illustrated the need for community help for the less fortunate.

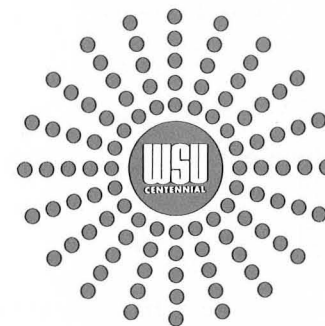
For the recent Wilson Seminar, Kappa Psi issued a supplement of its monthly Red and Gray Newsletter on the topic of drug abuse. It was received well by those who attended the seminar. Gerry Savel was responsible for the publication of the supplement.

Kappa Psi was display conscious during the past year, setting up a display in State Hall on Poison Prevention during National Poison Prevention Week and a display during National Pharmacy Week.

Kappa Psi sponsored a unique social event during Winter Quarter. A party was held in the fraternity house at 1120 W. Forest and an estimated 150 attended.

The athletic team of Kappa Psi proved victorious over the local Phi Delta Chi Chapter in football, baseball, basketball, and bowling.

The following officers were elected for this year: Ken Resztak, Regent; Eric Hoagland, vice-regent; Bob Ritter, secretary; Ron Cummings, treasurer; John Loughner, historian; Joe Nemcok, chaplain; and Roger Auger, sergeant at arms.



REPORT ON THE ANNUAL KAPPA PSI PROVINCE ASSEMBLY

by Kenneth E. Resztak

The annual Province V Assembly of Kappa Psi Pharmaceutical Fraternity was held here in Detroit, on March 28, 29, and 30 at the Howard Johnson's New Center Motor Lodge on West Grand Boulevard at Third. Province V is made up of seven collegiate and three graduate chapters from the states of Michigan, Ohio, and Western New York.

The theme for this year's assembly was "The Pharmaceutical Center—Its Economic Analysis". The theme was carried out by a film on the Pharmaceutical Center by McKesson and Robbins and presentations by Brothers Sherwood Clifford R.Ph. and William B. Hennessy, R.Ph. covering the different aspects of their practices. Special thanks goes to Robert C. Johnson, R.Ph., Executive Director of the MSPA, who took time from his busy schedule to stop by and say a few words to us.

One of the highlights of the Convention was a party Thursday evening in which the brothers of the Province had a chance to socialize with approximately eighty girls from the nearby colleges and nursing schools.

The Friday breakfast was followed by the first business session. The most interesting highlight of the first session were the reports given by the Chapters on their various activities for the past year. This provided the delegates with a formal means of exchanging ideas which were explored in some detail among the brothers later on in the evening at the various entertainment spots in Detroit.



Saturday luncheon banquet.

Saturday was devoted to nomination and election of officers for the coming year. During the Luncheon, Dean Barr gave a talk on the Clinical Pharmacy Program here at Wayne which was very well received by the Brothers. Many of the delegates were interested in having their Colleges of Pharmacy start such a program.



Dean Martin Barr: Clinical Pharmacy

The Convention came to a close on Saturday afternoon with the installation of the following as officers for the next year: Satrap David Siddle, Xi Chapter, Ohio State University; Vice Satrap John Schroeder, Gamma Iota Chapter, State University of New York at Buffalo; Secretary-Treasurer Frank Facione, Detroit Graduate Chapter; Historian Dana Weaver, Beta Phi Chapter, University of Cincinnati; and Chaplain Robert Hodges, Gamma Chi Chapter, Ferris State College. The Assembly next year will be at Columbus, Ohio.



Left to right: Frank Facione, Robert Hodges, Dana Weaver, David Siddle and John Schroeder.

ALPHA ZETA OMEGA

The Phi Chapter of Alpha Zeta Omega at Wayne State University conducted many successful professional and social activities during the past academic year, including a trip to Toledo, Ohio.

The fraternity members' scholastic average was approximately 2.5 and was over 3.0 for the winter quarter. The award for highest scholastic average over the past year went to frater Ernest Gurwich. Frater Harvey Klein received the Gerald Gerger Award.

Officers for the past year have been: Directorum, Ernest Gurwich; Subdirectorum, Harvey Williams; Treasurer, Harvey Klein; Bellarum, Marty Rose. Graduating Seniors in June are Ernest Gurwich, Harvey Williams, and Harvey Klein.



RHO CHI SOCIETY

Annual Lakey Award Presentation

Each year, the Alpha Chi Chapter of Rho Chi National Pharmaceutical Honor Society presents the Lakey Award to an individual who has distinguished himself in an area of public health. This year the Chapter selected Joseph F. Sadusk, Jr., M.D., as recipient of the 1967 Roland T. Lakey Honorary Lecture Award.

The award was presented on December 5, 1967 following a formal initiation banquet of the Alpha Chi Chapter. Dean Emeritus Roland T. Lakey, in whose honor the award is named, gave a presentation at the dinner on "A History of the College of Pharmacy." Dean Emeritus Lakey served as Dean at Wayne State University College of Pharmacy from 1924 to 1953.

Following his acceptance of the award from Dean Martin Barr, Dr. Sadusk gave a presentation entitled "Changes and Trends in the Drug Regulatory Process."

Dr. Sadusk is presently Vice President for Medical Affairs at Parke Davis and Company. He is also Clinical Professor of Medicine at Wayne State University School of Medicine. He received his B.A. and then his Doctor of Medicine in 1935 from John Hopkins University. He has held teaching positions at various schools of medicine including Yale University, George Washington University, and Stanford Medical School.

Dr. Sadusk has also served as Medical Director of the Food and Drug Administration in Washington, D.C. from 1964-1966. He has also served as consultant to Army, Navy, and Department of Defense. He has published over one hundred papers in the field of medicine and contributed to medical textbooks.



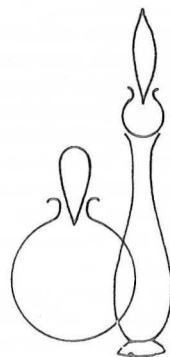
Dean Martin Barr and Dean Emeritus Roland T. Lakey present the Lakey Award to Joseph Sadusk, M.D.

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STUDENT ADVISORY BOARD

The Student Advisory Board has been and is continuing to establish traditions as well as keep up the old ones. These traditions are aimed at the student—both intellectually and socially. In the past years the S.A.B. has subsidized student rates to participation in the Alumni Dinner Dance and more recently, sponsored the Freshman Reception, receiving some financial support from the professional pharmacy fraternal organization on campus.

Last year two very popular and successful traditions were "rediscovered" or initiated: the Spring Picnic and the SAB-Graduating Senior Dinner. Also, plans were made to provide publications for student use in the student lounge and to provide a suggestion box in the lounge.

This year we are not only continuing these established traditions, but also initiating some new ones. The actual acquisition of selected journals and practical arrangement for display was accomplished, and the suggestion box has become a reality. Steps for the removal and possible replacement of the "coffee" machine have been taken with the actual action expected for the Fall Quarter. A Bulletin Board for student use was furnished by the S.A.B. We



will also be sponsoring a drug abuse program for the University. Preliminary steps will be taken in the Spring Quarter and a more extensive program will come off next year with student teams going to high schools to put on programs there. Our newsletter, The Student Advisory Board Review, was first published in January, 1968. An intern guide was proposed to help eliminate confusion about the internship with regard to the requirements, licensing, etc. Hopefully, this will be available in the Spring Quarter and will be provided in conjunction with the APHA.

The S.A.B., as always, will continue to serve the profession and future professionals, through active participation in matters involving both.

Alice Rice
Secretary, S.A.B.

Wegs Pharmacy

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Joe Morelli
Jim Motyl
Paul Munzenberger
Gerry Petrosky
Ron Ponichter
Bill Robinson
Tim Redman
Richard Shore
Gil Steiner
Jim Wallace
Charles Weinert
Ken Wlasuk

GRADUATING SENIORS - 1968

L to R - Paul Munzenberger, Gary Ingram, James Uren, Herb DeLong,
James Wallace, Ron Ponichter, Tim Redman, Dennis Kenealy, William Robinson

APhA - MSPA 1967 - 1968

APhA-MSPA STUDENT CHAPTER

Pharmacy students at Wayne State University College of Pharmacy participated in various meetings and events sponsored by the student chapter APhA-MSPA. Gary Ingram, graduating senior, served as president along with the following officers: Tim Redman, vice president; Sue Chenevert, treasurer; Sandy Sharrard, recording secretary; Sue Rosenberger, MSPA corresponding secretary; and Pam Vener, APhA corresponding secretary. Mr. Delbert Konnor served as faculty advisor.

In October, the APhA sponsored a contest for National Pharmacy Week for the best display illustrating pharmacy. The organizations who entered exhibits were Rho Pi Phi and Kappa Psi, while Parke Davis and Company sponsored a series of pictures entitled, "History of Pharmacy."

Also, in the fall, a program on Unit Dose system and the use of sub-professionals in a hospital pharmacy was presented by Larry Kersten R.Ph. from Plymouth General Hospital. He emphasized the important, changing functions of the pharmacist and the use and duties of technicians in the hospital pharmacy.

A presentation by Larry Brilliant from Wayne's Medical School on the Detroit Student Health Organization created much interest and controversy. The organization, which consists mainly of medical students with some pharmacy and nursing students, has set up a clinic to supplement adequate health and medical care to people in the Jeffries Housing Project. Mr. Brilliant explained the organization and purposes of the Jeffries Community Health Center and requested the support of pharmacy students in a total health care facility.

The APhA sponsored a campaign during Poison Prevention Week in March. Several effective displays and exhibits were placed in prominent areas on campus to alert students on the dangers of poisons.



WSU STUDENTS PARTICIPATE IN MSPA HOUSE OF DELEGATES

Delegates, Gary Ingram and Sandra Sharrard, represented WSU student chapter APhA-MSPA at the annual Interim House of Delegates meeting, February 8 in Detroit. In addition to various reports presented at the meeting, some new approaches to the practice of pharmacy as a profession were emphasized.

The report of Robert C. Johnson encouraged more participation in prescription cost analysis surveys to determine the prescription charge for third party payment, in the MSPA sponsorships of programs for youth on drug abuse, and support at the "grass roots" level for involvement in association and related government activities.

Charles Covington from Smith, Kline and French Laboratories, discussed the impact of Office for Economic Opportunity Health Centers on pharmacy. He explained the role of the community pharmacy along with other members of the health team such as doctors, nurses, and social workers in providing health care to the family unit.

The proposed changes in the Internship laws were presented by Robert Ravin. The changes provide a more diverse intern experience in all areas of pharmaceutical practice and also suggest licensing of the individual pharmacy preceptor.

The House of Delegates provided opportunities for pharmacy students to associate with the progressive leaders in pharmacy in the State of Michigan.



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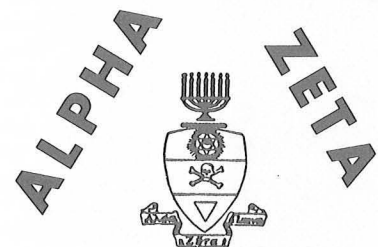


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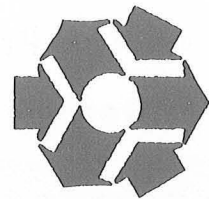
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SISTER EMANUEL

In the fall of the past academic year, a new course, Clinical Pharmacy, was incorporated into the curriculum for fifth year students. Taught at Providence Hospital, Southfield, Michigan, this teaching and research program was coordinated and planned, along with the College of Pharmacy, by Sister Emmanuel, Director of Pharmacy Services at Providence Hospital.



Sister Emmanuel, who received her Master of Science in Pharmaceutical Administration at Wayne State University, graduated from St. John's University in 1955, with a Bachelor of Science in Pharmacy. Previously she had attended St. Joseph's College. In 1949 the Sister graduated from Holy Angels' Academy.

After completing her internship experience, at Providence Hospital, Washington, D.C., Sister Emmanuel became Director of Pharmacy Service at St. Mary's Hospital, Troy, New York, then Director at DePaul Hospital, Norfolk, Virginia. Besides being an Instructor in Clinical Pharmacy at Wayne, Sister Emmanuel is also an instructor of pharmacology at Providence Hospital.

At present Sister Emmanuel is president of the Southeastern Michigan Society of Hospital Pharmacists. She has been an active member of this organization since 1961, when she came to Detroit. She holds memberships in the American Pharmaceutical Association, American Society of Hospital Pharmacists, Michigan State Pharmaceutical Association, and the Oakland County Pharmaceutical Association.

Sister Emmanuel is an active contributor to pharmaceutical publications and recently published an article in the April, 1968 edition of *Drug Intelligence*.

Clinical Pharmacy

The past academic year has been filled with exciting changes at the College of Pharmacy. Of major importance was the introduction of the new curriculum. One of the new courses is Clinical Pharmacy. Last year sixteen graduating seniors participated in the first offering of the clinical pharmacy course, at Providence Hospital in Southfield, Michigan. During the course of teaching and observing, the students learned many aspects of the hospital. Instruction of this type reflects credit on the college and the hospital.

The objective of this course was not to make the students clinicians, but rather to try to orient them to clinical practice. Also, it was hoped that an experience of this kind would illustrate how a pharmacist can be a more valuable member of the health care team. The course emphasized that a bright and productive future exists for pharmacy.

The course was a survey of hospital practice which was prepared by the College and Sister Emmanuel Schott (Director of Pharmaceutical Services, Providence Hospital.) The class met for a five-hour period on Tuesday afternoons. Course instruction consisted of medical lectures, making medical-patient rounds, studying patient charts, observing patient care, operating room procedure, anesthesia, recovery room



A group of Wayne State University Clinical Pharmacy students are shown in the midst of pediatric rounds at Providence Hospital, Southfield, Michigan with Rita Heidish, M.D. (r.).

activity, and pre-op rounds. Other phases of hospital activity and medical treatment seen included cardiac care, nursing service, the special care units, the obstetrics-gynecology unit, laboratory techniques, inhalation therapy, radiology, blood dyscrasias, urology, ophthalmology, the psychiatric rounds, surgical rounds, internal medicine rounds and the wet clinic. Various aspects of administrative activities were observed, for example, the organization of the hospital, the medical staff functions, maintenance of medical records, third-party payment arrangements, and the admitting of patients. The dietetic department and the hospital pharmacy were also visited. Pharmacy students presented certain topics to student nurses.

Aim high

Rho Chi Society



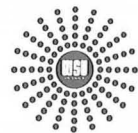
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The various lectures by hospital personnel centered on departmental functions. Rounds with the medical staff were oriented to observe drug therapy. Observations were made of selected surgical procedures (repairing detached retinas, cryotherapy, etc.), nursing procedures, and patient care. Of importance was the patient relationship with the health care members. Definite positive impressions were left on the students.

Most of the students were left with the feeling that a new and rewarding experience in health care therapy awaits pharmacy. Here was a course where theory could be placed into practice. The pharmacist wasn't a technician, but a drug expert.

Many of the doctors who originally doubted the students' ability, were delighted by the extent of their knowledge. At times the physicians underestimated the students. All in all, the doctors appeared to accept the students quite well.

This course in clinical pharmacy indicates that, with future education, a pharmacist can fill an existing gap in today's health care program.



DR. ABRAMSON

(Continued from Page 5)

children should be able to choose any vocation they want without being pressured. "If my son wants to play third base for the Tigers it's all right with me—they could use one."

He enjoys sports in general and es-

pecially pro football. He played baseball, football and hockey in high school. He is reluctantly picking the Tigers to win the pennant this year but says "I have picked them to win it every year since 1945."

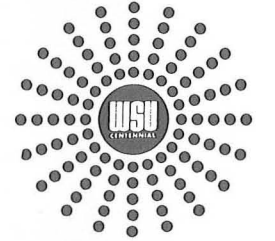
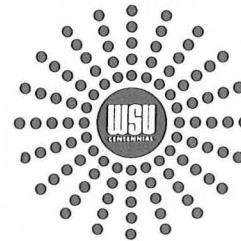
He enjoys teaching and research, and he attributes his idealistic outlook to his youth. He feels there is tremendous

cooperation from other departments at Wayne and sees a great potential here.

He believes the "purpose in pharmacy school is to train drug experts and you cannot be a drug expert unless you have some idea of how the drug works. No longer do we learn structure for the sake of structure, but for definite reasons."

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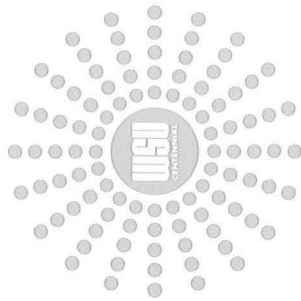
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