call on retail and hospital pharmacists
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a career with a future
If you welcome a challenge in the pharmaceutical field, if your training has equipped you for a sales career, if you can fill the respected and responsible role of being The Upjohn Company to hundreds of professionals in the medical field, if you are looking for a future that is unlimited and offers attractive personal benefits commensurate with the level of competence expected...then Upjohn may be the place for you. For information about a career with Upjohn, write to W. C. Sugg, Director, Domestic Pharmaceutical Sales, The Upjohn Company, Kalamazoo, Michigan.

The Upjohn Company • An equal opportunity employer.
Aphatic Non-Involvement

The requirements of higher education have progressed to a point where essentially all individuals with superior scholarly backgrounds are given the opportunity to advance themselves in the knowledge espoused in the minds of our universities. This is in contrast to the olden days where the opportunity was open only to those who were able to pay for an education, or to those who had the ability to solicit the aid of such as the Wayne Pharmic. The Wayne Pharmic is available to all, regardless of ability to pay, and is used in self-therapy, is increasing. Medication is now employed in the treatment of diseases. Pharmaceutical personnel should be responsible for ensuring that only those who need medication are prescribed it. The need for the executive, administrative, and technical personnel essential to pharmaceutical services, and there is growing appreciation of their executive or administrative abilities.

As students preparing for the profession of pharmacy, you should stress that the requirements prerequisite to the attainment of that impressive piece of parchment called a diploma are those that if you are one of those who fall into this category, I must earnestly recommend a return to your desires and goals with the utmost excellence.

The Wayne Pharmic

There are many conditions already present affecting all aspects of pharmaceutical practice and promoting the course of future pharmaceutical activity. As students, you are being prepared to enter the broad field of pharmacy, rather than a specialized place of practice, so that you will be able to cope with these changes in such a way as to take maximum advantage of professional opportunities which are certain to present themselves. It is primarily for this reason that your College places emphasis upon preparation for future conditions and future vocational environments.

Below are listed some of the emerging activities and vocational positions for which increasing numbers of0 pharmaceutical personnel should be required in the future:

1) The use of medication, both that which is prescribed and that which is used in self-therapy, is increasing. Medication is now employed, not only in sickness, but also in health. Medication now has prophylactic and maintenance use intended to affect the structure or function of the body of man, as well as their customary use in the mitigation, treatment, or cure of disease.
2) The increased use of medication, and particularly medication as so designated by the pharmacists, is leading to a greater consciousness of the importance of health and the prevention of disease. The utilization of health and welfare programs, together with the minimum standards required in private or non-governmental counter-partias, A redistribution of personnel is most inevitable as the creation of vacancies which demand professionally trained pharmaceutical personnel. Moreover, federal and state regulatory agencies concerned with drugs, pharmaceutical services, accreditation of persons or facilities, reimbursement or payment for health or welfare programs, and related matters, are aware of the exceptionality based on scientific and technical background of pharmacists, and there is growing appreciation of their executive or administrative abilities. As students preparing for the profession of pharmacy, you should stress that the requirements prerequisite to the attainment of that impressive piece of parchment called a diploma are those that if you are one of those who fall into this category, I must earnestly recommend a return to your desires and goals with the utmost excellence.

The Wayne Pharmic

Wayne University and its College of Pharmacy do offer the student an opportunity to develop intellectually as well as professionally, so that he can succeed in today's highly competitive business world. The opportunity is present, however, the initiative and drive needed for its realization is predicated upon the willingness of the individual to accept responsibility. The time will come when we will no longer be judged on your ability to excel on examinations, but on your capacity and willingness to interact in a meaningful and socially purposeful manner. Do not deprive yourself of the opportunity to contribute to your College and University but also participate to the fullest in those programs which provide the atmosphere necessary in the development of today's well-educated leader.

Can You Justify Your Presence in College?

The Wayne Pharmic is a student publication of the College of Pharmacy, published of the Wayne State University and its College of Pharmacy like many other groups on campus are faced with this problem, which is especially acute in the years immediately following graduation. The importance of participation in the organizations within the College and who contribute their energies toward the betterment of these organizations, the College, and their own professional lives. Many students are not even aware of the College's facilities or are not completely aware of the College's facilities or are not completely aware that this editorial is directed at you. Do you know that a total of 4/5ths of your education is your purpose in attending a complex university.

Let's have your ideas and your help! (Remember the 1st through 6th editions of the "Wayne Pharmic").

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From the Dean's Desk
Changing Patterns
In Prescription Practice

The 13th Annual Stephen Wilson Pharmacy Seminar was held on Feb-
uary 24, 1966 at Shapero Hall and McGregor Memorial Conference Cen-
ter. Mr. William Henessey was the General Chairman, Ira Smith, presi-
dent of the College of Pharmacy Alumni Association, presided over the morning session, and Neal S. Van Haften, presi-
dent of the AMA, presided over the afternoon session.

MR. ROBERT HILLS—Creative Federalism

The role of the federal govern-
ment was presented by Mr. Robert Hills, Special Assistant to the Asso-
ciation Secretary for Legislative Affairs. The United States, through the
Department of Health, Education, and Welfare, is a major participant in
the health care field. One of the main points made by Mr. Hills was that
the present Administration has created the Office of Medicare, a branch

The main point made by Mr. Hills was that the present Administration
followed, in their domestic legislation, the pattern of previous govern-
ments. In 1945, the United States government passed a law which estab-
lished a federal government program to finance the cost of medical
services. This was the result of pressure from the public and from
department heads who wanted to finance the cost of medical services.

Mr. Hills went on to explain that these federal programs were created
due to several factors, with both industry and the public being
involved. The public wanted health care, and the government was
willing to provide it. However, the government had to be careful in its
approach, as it could not simply give away money to the public.

The government, however, does work through private units.

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Thus, the training of needed health professionals is being done, but by fed-
eral management of education, rather than by giving dollars needed for
expansion and improvement.

Mr. Hills feels that Medicare is itself a creation of choice for all involved—health professionals attending hospitals, the patient, the physician, and the
hospital. Mr. Hills also feels that Medicare will cause increased activity by
the pharmaceutical community, as it is a new area for profit making.

Mr. Hills went on to explain that the present Administration is
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Health, Education, and Welfare.
You'll be hearing a lot of talk in the time ahead about generic equivalents. One view holds that as long as drug products carry the same generic name, they will be chemically and therapeutically alike in every respect. Chemically alike? Maybe. Therapeutically alike? Not necessarily.

Reason? Variations in technique of manufacturing and quality control which can affect such things as:
- crystalline structure
- disintegration rate
- solubility rate
- absorption characteristics
- duration of action.

Obviously, laboratory analysis can reveal the components in a drug product. But manufacturing techniques can't be so readily learned. That's why drug products made according to techniques proven in clinical trials may perform differently than unproven chemical copies made by different processes.

That's why we say that products made by reputable manufacturers are unique. What's in a name? Reliability.

Smith Kline & French Laboratories, Philadelphia

The Wayne Pharmacist

APhA REGION IV CONVENTION

On March 3rd, 4th and 5th Wayne State University served as host for the 1966 APhA Region IV Student Chapter Convention. During the three day session, delegates from thirteen colleges of pharmacy from Michigan and the surrounding five states attended business meetings and social functions. Schools represented at the convention were Butler University (Indianapolis), Ferris State College (Big Rapids, Mich.), Ohio Northern University (Ada, Ohio), Ohio State University (Columbus, Ohio), Purdue University (West Lafayette, Ind.), Toledo University, University of Cincinnati, University of Kentucky (Lexington), University of Michigan (Ann Arbor), University of Wisconsin (Madison), University of Wisconsin (Milwaukee), and Wayne State University.

Serving as delegates from Wayne State were Grey Ingram and Allen Potra. Also, William Smith from Wayne has served Region IV during the 1965-66 year as secretary-treasuerer and was responsible for planning the 1966 convention. Dr. Dunker served as faculty secretary-treasurer and was advisor for the convention committee. Various members of the Wayne State student chapter of APhA and the pharmaceutical sororities and fraternities gave their support to the planning of the convention. The highlights of the convention included a tour of Shapero Hall of Pharmacy, and Detroit's U.S. Food and Drug Administration facilities. Presentations by Parke-Davis & Co. on "The Pharmacist and Industry" and McKesson and Robbins on "The Pharmaceutical Center" were also of interest to the delegates.

Presiding over the 1966 convention was Fred Rizzo from the University of Cincinnati, who did an excellent job in conducting effective meetings and injecting the importance of APhA, its purpose and its future in the field of pharmacy. The annual Region IV convention provides an opportunity for the student chapters to get together and exchange ideas. They discuss current problems within their own colleges and also those facing the profession.

An important aspect of the convention was the report from each delegate on the activities of his chapter. Many of the chapters seemed to have the same problems. Membership to the APhA, and especially membership of the younger pharmacy students, was one of the major problems. Toledo University reported that it had some success in reaching the younger students by holding annual pharmacy days which were attended by high school students, members of the college, and those pharmacy students not in the APhA. Many chapters were involved with internship requirements within the various states. The University of Kentucky is actively interested in the passage of a new pharmacy law in the state of Kentucky, The University of Cincinnati and the University of Michigan are trying to pressure health fields outside of pharmacy on their members, while Wayne State has presented interesting speakers on over-the-counter pharmaceutical items. Many chapters also reported having social functions as a part of their activities.

One of the most important committees formed during the convention was the curriculum study committee. Their purpose was compiling information on various subjects from each of the colleges of pharmacy. This data will then be sent to Purdue University where the APhA representatives will classify all the information and present it in a report, which will be available in the fall of 1966. The major topics under discussion concerning curriculum were the required pharmacy courses, the required courses outside the college of pharmacy, the unique pharmacy courses at each college, the authors and titles of the major pharmacy textbooks, and information concerning graduate school. Also, the committee decided to conduct a study on internship requirements in pharmacy in various states. A major event during the convention was the election of officers for the 1966-67 year. At the final business session, Sam Cousine from the University of Kentucky was elected president, Sid Huling from the University of Cincinnati was elected vice-president, and John Decker from Butler University will serve as secretary-treasurer. Each of the newly elected officers then expressed their intention to coordinate Region IV activities and to promote professionalism in pharmacy.

The delegates of the convention unanimously agreed that Region IV, 1966 had been a success. Because they had the privilege of attending this convention, these future pharmacists are better equipped to understand their profession and the purpose of their professional organization—the APhA.

Sandra Sharrard

Congratulations Graduates

ADAMS DRUGS

31830 Mound Road Warren, Michigan

Walter J. Peregon, R.Ph.

Wayne State University Student Chapter

AMERICAN PHARMACEUTICAL ASSOCIATION--

MICHIGAN STATE PHARMACEUTICAL ASSOCIATION

The Student Voice of the Profession
New Faces on the Faculty

JANARDAN B. NAGWEKAR, Ph.D.
Born October 25, 1930 in Bombay, India, Dr. Nagwekar began his college studies at the University of Baroda at the age of twenty. Four years later, he received his Baccalaureate degree in Chemistry, after which he enrolled at the University of Bombay where he studied an additional two years and received a Baccalaureate degree in Pharmaceutical Technology.

Utilizing this educational background, Dr. Nagwekar worked for two years as an analytical chemist for a pharmaceutical company in India, after which he came to the United States to continue his studies. He enrolled in the Philadelphia College of Pharmacy and Science where he worked toward a Master's degree under the present Dean Dr. Martin Barr. After completing his studies, Dr. Nagwekar went to Temple University and received a Doctorate degree in Biopharmaceuticals in June, 1965. With this education, educational background, Dr. Nagwekar had received several offers for work and research from leading universities throughout the country, but Wayne was his choice because, as he says, Wayne's future... “Is very bright and the opportunities for work and research are very great in this rapidly growing University.”

Dr. Nagwekar is a member of APhA-MSPA, and the Rho Chi Honor Society. He is a recipient of the limestone Richardson Pharmacy Award for his research on “Hydrophobic Bonding.” He is Assistant Professor of Pharmacoeconomics and is currently developing a graduate program for majors in Biopharmaceutics and Kinetics of Drug Degradation and Stabilization.

Dr. Nagwekar’s special message to the student body is that he urges all capable students to continue their studies in graduate programs because, “This is the best way one can contribute and actively help the progress of Pharmacy and the drug field in all its aspects.”

HENRY C. WORMSER, PH.D.
Born September 10, 1916, Dr. Wormser spent the major part of his youth in France, his native country. He came to the United States in 1953, where he studied two more years in high school and graduated in 1955. After his graduation, Dr. Wormser enrolled at Temple University College of Pharmacy where he received his Baccalaureate and Master’s degrees in Pharmacoeconomics. He later went to the University of Wisconsin, received his Doctorate degree in Pharmacoeconomics and spent approximately two years teaching at the University College of Pharmacy. In July 1965, encouraged by Wayne’s progress and its continuous development, Dr. Wormser came to Wayne State University.

Currently, Dr. Wormser is Assistant Professor of Pharmacoeconomics. He is teaching senior courses in Pharmacoeconomics and is planning to offer an undergraduate course in Biopharmaceutics in conjunction with Dr. Nagwekar. His graduate program includes a course in Pharmacobiosymmec. Dr. Wormser is a Registered Pharmacologist and a member of APhA-MSPA. He has been attracted to pharmacy since his childhood, and when he started his college studies he became interested in pharmacoeconomics, Dr. Wormser says, “I discovered the most fascinating field of scientific study. Problems usually arise in this field and it’s a challenge and a delight to untangle such problems and find a solution, and by that, help pharmacy in its progress and development.”

ROBERT RAVIN, M.S., R.Ph.
Mr. Ravin received his B.S. degree in Pharmacy from the University of Buffalo in 1957. He then came to Michigan, continued his studies at the University of Michigan, and received his M.S. degree in Hospital Pharmacy in 1960. Mr. Ravin is a member of several professional organizations: The Rho Chi Society, APhA-MSPA, and the American Society of Hospital Pharmacists. He is Chairman of the Safety Practices Committee (ASHP) and the Intern Study Committee (MSF).

Currently, Mr. Ravin serves on a part-time basis as assistant professor of Hospital Pharmacy, and as such, is intimately involved in the newly developed graduate program in Hospital Pharmacy at the College. He also is an Instructor and Lecturer at the University of Michigan College of Pharmacy, and he is the Director of Commercial and Hospital Pharmacy, at St. Joseph Mercy Hospital, Ann Arbor, Michigan.

Mr. Ravin, at the request of Dean Martin Barr, came to Wayne in 1965 to help develop and expand the graduate program in Hospital Pharmacy, a program for which there is a definite need. Emphasis is being placed on two points:

1. Most of the courses offered are to be available in the evenings so that the student can pursue a Master’s degree either on a full-time or a part-time basis without having to leave his present hospital position.

2. The program is to emphasize both pharmaceutical management and the potential role of a director of pharmaceutical services as a clinical pharmacist.

An undergraduate course in Hospital Pharmacy (Pharmaceuticals 444) will also be offered and will, in essence, be an orientation course in Hospital Pharmacy.

Mr. Ravin strongly urges all capable students to go as far in their studies as possible. He believes that, “...the future of professional practices is brighter than ever before. If we will accept the challenges facing us and be willing to adapt to changes due to technological advances that are being made, the pharmacist of the future must concentrate on using his brain, not his hands.”

Congratulation to the June Graduates

Macomb County Pharmaceutical Association

BEST WISHES FROM

CONGRATULATIONS
JUNE GRADUATES

M. S. - R. PH.

FROM

ALUMNI OF

PERRY PHARMACY

JACK ROBBINS - 1952
DON PIKE - 1950
BILL RINGPORE - 1967
ALLEN KLEIN - 1963
WICKIE COLE - 1962
ALVIN ROBIN - 1964
ROBERT SHAPIRO - 1962
EDWARD GLICK - 1964
GEORGE EDWARDS - 1950
LARRY SPIDER - 1963
TED ANTWICK - 1964
JACK MARSHACK - 1963

The Wayne Pharmacist
Researchers in the health sciences have long hoped and wished that it might be possible to discover and state in precise terms some general theory to explain the mode of action of various drugs at the cellular or subcellular level. Today the possibility of achieving this goal is becoming more and more of a reality due to our deeper understanding of the fundamentals of molecular pharmacodynamics.

During the past two or three years many theories have been presented in order to try to explain the basic mechanisms of drug action. Although many of these lack the direct experimental proof required for universal acceptance, they represent a wealth of new ideas and approaches which, coupled with the techniques now available for studying molecular structures and interactions, suggests an exciting future in this area.

It is a fundamental postulate of bio-pharmacodynamics that there exist in living tissues and cells specific functional elements with which drugs undergo chemical reaction. Paul Ehrlisch was the first to suggest that cells and tissues contained these structures which we now call drug receptors. No drug receptors have yet been isolated or identified as units either on the surface of the cell or within the cell itself. The greater the specificity required in the structure of a drug molecule to produce a given effect, the more probable it is that the effect is based on an interaction of the drug molecule with certain specific areas of tissue receptors. The ability of proteins to distinguish between closely similar structures of small molecules has also been observed in the study of the interaction between haptens and antibody, substrate and enzyme, and may be involved in the carrier systems of active transport processes. Features common to most of these systems can be summarized as follows:

1. The principal attractive forces are easily broken chemical bonds.
2. The principal repulsive forces are electrical repulsions and steric hindrance.
3. The three-dimensional geometry of the protein establishes different combinations of these forces in individual cases.
4. The amino acid sequence of the proteins plays a role in establishing this three-dimensional geometry.
5. Only a small fraction of the amino acid residues of the proteins are directly involved in the specificity of the interaction, but some which are distant from the active site play a role in establishing the necessary geometry of the essential amino acids.

There are four main methods which have been used in the chemical study of the active site of enzymes:

1. Inhibition by a group-specific reagent, protection against this inhibition by substrate being taken as evidence that the observed reaction occurs at the active site.
2. Correlation of the pH dependence of catalytic activity with the pH of the groups at the active site.
3. Use of a reagent which reacts at the active site to form a stable compound which on degradation can lead to identification of the amino acids in the vicinity of the site.
4. Use of reactions which form an observable or stable enzyme-substrate intermediate whose properties can be explored.

It has also been suggested that the active site of an isolated crystalline enzyme may not necessarily be a negative component of the substrate, but becomes so only after interaction with the substrate which triggers a conformational change in the protein. This is the "induced fit" hypothesis which calls for an engulfing of the appropriate groups of the enzyme molecule around the substrate to form the enzyme-substrate complex.

Precise alignment of catalytic groups is presumably needed for enzyme action and the conformation changes leading to the correct alignment of these groups are caused by substrates and not by non-substrates. It is possible that drug receptors may be equally flexible rather than having fixed geometry.

Baker has emphasized the importance of the chemical structure adjacent to the active site. He theorizes that antagonists which already fit the active site of an enzyme stereospecifically may be made even more efficient by adding chemical groups which will be attracted by and bound to the area immediately surrounding the catalytic center. This is the concept of enantioty.
saturated fatty acid biosynthesis. More specifically one of the programs deals with the enzyme acetyl CoA carboxylase which catalyzes the conversion of acetyl CoA to malonyl CoA, a key step in lipid metabolism.

\[ \text{CO}_2 + \text{CH}_3\text{COCOO} + \text{ADP} + \text{Pi} \]

**d-Biotin** serves as a catalyst for this carboxylation reaction. By modifying chemically the natural catalyst we hope to be able to probe into the portion of the enzyme essential for activity and to determine the amino acids in the peptide chain directly involved in the carboxylation reaction. Since malonyl CoA is an active intermediate in the biosynthesis of mevalonic acid which in turn gives rise to the important body sterols, this research could give some insight as to a possible control of body cholesterol. Search could give some insight as to a possible control of body cholesterol.

It is also known that probenecid, when administered in combination with sulfonamides, decreases the rate of excretion of the sulfonamides, thereby increasing their biological half-lives. These experimental observations indicate that both sulfonamides and the mandelic acids are secreted by an active transport mechanism via the kidney tubules, and probenecid interferes with this active process. The observations also suggest that both sulfonamides and the mandelic acids are probably secreted by the same mechanism. If this is the case, an optical isomer of mandelic acid and a sulfonamide when administered simultaneously to human subjects should compete for the secretory mechanism and increase the biological half-life of each other. By utilizing a homologous series of sulfonamides (e.g., sulfadiazine, sulfamethazine) as test compounds, this study might also provide some insight with regard to structural specificity of a drug molecule for the active transport mechanism present in the membranes of kidney tubules.

**The Upjohn Tour**

Stepping out of the bright sunlight, which today was our friend, but which in days to come was to become the symbol of all that was evil, we rapidly and orderly boarded the train. The time was approximately 11:30 A.M. on October 18, 1955. Amidst the shuffling of suitcases, strangely emanating a sound which was strongly suggestive of tinkling glass, we headed for Kalamazoo, Michigan. A visitation to the Upjohn Company was the result of a spirited discussion at one of the dinner tables the night before.

At about 4:00 P.M. on Tuesday afternoon, amidst the shuffling of new strangely silent suitcases, we boarded the train. The spirited, anticipating, boisterous group of two days before, now rather subdued, but nevertheless satisfied and contented, settled back into their seats for the trip back to Detroit. We, the fourth and fifth year students who participated in this trip, would like to thank the Upjohn Company for extending their invitation and hospitality and, also, Drs. Bailey and Nagy, for enduring the presence of our company.
PHI DELTA CHI

The Brothers of Phi Delta Chi, Alpha Eta Chapter, moved from their old home on West Hancock this past September. They purchased a home at 724 West Draykow, which was made possible with the Phi Delta Chi Alumni Association. After much labor, they had a permanent place of residence, at the new location approximately one mile north of the University campus.

The success of continual leadership and progress of our fraternity in Pharmacy cannot be accredited to any one member. The success of any fraternity depends on the members’ cooperation in accomplishing the goals set forth in their professional endeavors. Much credit must be given to the officers of the fraternity, Serving as President of our fraternity for the ’65-’66 school year is Ronald Ponichter. Working with Ron this year are Charles Weis, Vice-President; Tom Rolands, Treasurer; Dennis Kenney, Correspondent; Michael Zmich, Recording Secretary; and John Jarvis, Chaplain. The Brothers of Phi Delta Chi thank each of these officers for outstanding leadership.

The pledge program for the Fall Quarter was conducted under the able supervision of Brothers Dave Little and Jack Crook. Their effort was rewarded as six pledges were initiated into the fraternity at the end of the Fall Quarter. The new Brothers are Kenneth Bortnem, Gary Ingem, Bill Kahn, Dennis Llanaer, Carlos Ortis and Tim Redman. The Brothers of Phi Delta Chi welcome these new members and, along with them, pledge their support to the professional activities of the College during the remainder of their academic careers.

The fraternity has a large graduating class this June; among them are many outstanding leaders in the College of Pharmacy. Recognition goes to Zack Gill, Tom Graham, John Jarvis, Bill Kiley, Fred Lane, Carlos Ortis, Walter Perego, Kenneth Schulteis and Michael Zmich. Daniel Hazen was the only graduating senior from Phi Delta Chi in December. Special recognition goes to these graduating seniors: John Jarvis, Alpha President; Co-Editor of the Pharmac; Kenneth Schulteis, President of the Student Advisory Board, College of Pharmaceutical Representative to the Student Faculty Council, and Co-Editor of the Pharmac; Walter Perego, Student Advisory Board Representative.

Athletic competition between Phi Delta Chi Fraternity and the Kappa Psi Fraternity has been reinstated during the past two quarters. These spirited football and basketball games have provided Phi Delta Chi with two more trophies which are well polished daily. These activities are in keeping with the maintenance of physical fitness as well as mental alertness.

As many people in Detroit have read in an article appearing in the Detroit News, January 11, 1966, four members of Phi Delta Chi went to the Annual Convention in Philadelphia and brought back the 1967 Convention flag to Detroit. Our hats are off to Ronald Ponichter, Kenneth Schulteis, Dennis Kenney and Mel Dalley. Mayor Cavanaugh also expressed his gratitude to Phi Delta Chi for keeping the wheels of progress in Detroit moving.

The night of April 16, 1966 should bring back memories to many individuals, for on this night the "Vegas Van" was held at the new fraternity house. We will always remember it as a wonderful and very successful evening. Adding to the current news, the formal banquet of the Phi Delta Chi Fraternity will be held at the Bartholomew on June 18, 1966. The banquet represents the formal initiation of all new members for the year ’65-’66.

The Brothers of Phi Delta Chi would like to express their thanks and gratitude to Dr. Richard K. Mulvey for his continued friendship and guidance throughout the past year.

Kenneth Bortnem

RHO PI PHI

The 1965-1966 school year proved to be a very successful one for the brothers of Xi Chapter of Rho Pi Phi. At the International Pharmaceutical Fraternity Convention, both the brothers of Rho Pi Phi and the College of Pharmacy were fortunate in acquiring Dr. Henry Wormser, who is the faculty advisor to Xi Chaps.

The Wayne Pharrmce
Kappa PSI

Kappa Psi has grown during the past year as we added twelve new members from our Spring and Fall, 1965 pledge classes. They are Jerry Ceclaglia, Phil Cole, Tom Cummings, Al Moursy, Ed Posuniak, Ken Resztak, Jerry Sewel, Ken Sayos, Bill Smith, Larry Titek, Al Trager, and John Triantaflos.

We held a fraternity picnic at Brother Pete Krajewski's cottage during the summer, and everyone had a good time. During the Fall quarter, we participated in a reception for new pharmacy students at the Alumni Lounge. The break for the holidays was highlighted by a Christmas and a New Year's party.

A few of the members went to the national convention of Kappa Psi in San Francisco during the week between Christmas and New Year's Day, from what we hear they had a great time. Our new officers for 1966 were installed in January, and they are: Phil Cole, Regional Director; Al Moursy, Vice President; Ken Sayos, Treasurer; Tom Cummings, Secretary; Al Trager, Chaplain; Paul Anderson, Historian; and Ed Posuniak, Sargent-at-Arms.

The chapter was well represented at the Annual Seminar at the Annual Convention and by the distribution of leaflets to the students.

A second community service included a toy drive held by the Chapter.

The Brothers of BPA Phi wish to extend to their graduating brothers, Mike Marx, Al Margolla, Leonard Tencich, and Ralph Kays, the best of luck.

Sander M. Pickle

ALPHA ZETA OMEGA

L - R: Stanley Kreer, Ernest Gwirycz, Milton Stern, Harvey Williams, Mike Magner, Philip Kazi, Harvey Klein.

Not Pictured: Fred Bals, Fred Lindstrom, Bernard Friedman, Gary Helper.

ALPHA ZETA OMEGA

This year has proved to be successful, even though there have been numerous obstacles to overcome. Class schedules and working hours have made meeting in school difficult; however, the chapter has been able to continue its operation by meeting at different members' homes.

A highly successful smoker was held at the Northland Inn early in September and three prominent pledges were aligned. The three included Milton Stern, Harvey Klein, and Mike Magner. Also, during the fall quarter, Phi chapter along with their Alumni held a banquet at LaVera's Inn. Winter quarter for the most part was a quiet one, and one in which the fraters were able to catch up on their studies. However, we were able to let loose one night and held a stag dinner to behalf of Sheldon Levine's forthcoming marriage. During the winter quarter break another Phi Chapter dinner was held. This took place at the King's Arms, Dean Morris Barr and Supreme Directorum of Alpha Zeta Omega Herbert St. Cristle were honored guests.

This year as in past years in A2O, the scholarship of its members is the most important thing on the agenda. This year's recipient of the A2O scholarship award was presented to Stanley Remer, acting Directorum of Phi Chapter.

As the end of the fraternal year 1965-1966 approaches we of Phi Chapter find ourselves heading for a year of great reconstruction. Four of our senior members who have held important positions throughout the past year are graduating; Gary Helper (Signare), Fred Lindstrom (Treasurer), Bernard Friedman (Bellarm) and Fred Rand (Pledgmaster). Although it will be hard to replace these four, the small but hard core members that will be back next year will do much to keep Phi chapter as one of the most active on campus. The men returning next year are Stanley Remer, Philip Kraft, Milton Stern, Harvey Williams, Harvey Klein, Ernest Gwirycz and Mike Magner.

Stanley Remer

The Wayne Pharmacist

The Wayne Pharmacist

Compliments of Omicron Chapter

Lambda Kappa Sigma

Congratulations to the Graduates

Rho Pi Phi

Fraternity of Pharmacy

The Professional Fraternity of Pharmacy

The Wayne Pharmacist
VEGAS VENTURE

Pharmacy students with millions of dollars?? It seems quite impossible, but it happened April 16, at the Vegas Venture. The only problem was that the portrait on the $1,000,000 bill featured a man and not a pharmacy. Wilson. The currency may not have been authorized, but there was no doubt about the fun. It was genuine to every way.

The event was held at the Phi Delta Chi House (Detroit’s answer to the Star-club). Gambling equipment and decor were brought in just for the occasion, or so we were told! Most important, the casino atmosphere was present. Millions of dollars were bet on the roll of a die and the turn of a card. The tourists quickly became proficient at figuring the number of $100,000 bills per million. The professional way in which the gamblers handled themselves, demonstrated the broad educational background the pharmacy curriculum affords. Veteran blackjack dealer, Leonard Trench had the opportunity to exhibit his skill with slight-of-hand card tricks (part of his inner training). Meanwhile at the Craps table, John Jarvis kept repeating some slight-of-hand card tricks (part of his Chi intern training?)

The event was held at the Wayne House (Detroit's answer to the Star-club). The only problem was that the broad educational background the pharmacy curriculum affords. Veteran blackjack dealer, Leonard Trench had the opportunity to exhibit his skill with slight-of-hand card tricks (part of his inner training?). Meanwhile at the Craps table, John Jarvis kept repeating some slight-of-hand card tricks (part of his Chi intern training?).

John Krohn externs in Livonia and enjoys deer hunting, Dennis Longo lives to Oak Park, but is originally from West Virginia. He is a member of Alpha and Phi Delta Chi and participates in nurses' competition. Pam Marrs is active in the Alpha, Alpha Delta PI and "The Pharmacist". She dances with the USO group from Detroit and has gone on many tours with this group. AI Metzey is a member of Alpha, Student Advisory Board, and is vice-regent of Kappa Psi. She is playing the drums.

Paul Mueninger is a member of Alpha and Phi Delta Chi. He enjoys sports of all kinds. Joe Pochant is a member of Alpha and Kappa Psi. He is a ham radio operator and likes to race sports cars. Mike Preuss enjoys snow skiing and is a member of Alpha and Kappa Psi. Tim Redman holds memberships to Alpha, Phi Delta Chi, YMCA and serves in the Naval Reserve, Submarine Division. He likes folk music and collects stamps, coins, and army postmarks.

Gerry Saval is a member of Kappa Psi and is a motorcycle-enthusiast. Vera Siewchuk is a member of Alpha, active in the WSP's University Student's Club, and a leader of a Ukrainian Girl Scout troop. Susanne Rosenberger has been very active in the WSU Tumbling and Gymnastics Club. She is an accomplished gymnast and is proficient at the discus.

While all the members in the Junior Class are taking the same classes and are involved in the same activities, each person has his own special interests. Ken Itohman has an extensive coin collection and enjoys part-time in a religious trio. He is active in the Alpha, Alpha Delta Chi, and Zeta Omega.

Ron Coleman is a member of Alpha Phi Alpha. He enjoys fishing—anytime and anywhere.

Tony Chausnoff, a Los Angeles native, is one of the few Northern California students. He plies his trade in downtown Detroit. When he finishes his education at Wayne State, he plans to return to Los Angeles and become a practicing pharmacist.

Bob Glinski is an accomplished musician who enjoys playing the piano, trumpet, accordion and baritone sax. He enjoys sports and hunting. Allen Margolis plans for a future in medical service representatives. He shows this diversification of our graduates will continue. Our college is proud of its outlook for the future. To show this diversification of our graduates in the professional fields of pharmacy open to them, a brief look at some of the possible endeavors of our graduates will be presented.

Students Are . . . The College of Pharmacy

Juniors

Sandra Barrard

The Junior Class of Wayne State's College of Pharmacy is composed of approximately 300 members. These students come from diversified background, have varied interests, and comprise different philosophies. However, they are united in one common goal—to become a pharmacist. They want to bring dignity and women, the future of the pharmaceutical profession, and are striving to do their best in their studies and activities in the College.

The following are some interesting statistics concerning the Junior Class. Out of approximately thirty members, 24 per cent are women. The class can be proud that 59 per cent are members of the Alpha Fraternity and 48 per cent are members of the Greek organizations in the College. Of the 47 per cent who are practicing externs, 39 per cent are externing in a hospital pharmacy. It is also interesting to note that only 8 per cent of the third year students are externing in areas other than Detroit and the surrounding suburbs.

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Don Avito will finish his internship at Providence Hospital. He will continue his education in "Pharmaceutical Chemistry" with the hope of someday teaching pharmaceutical chemistry.

Kathy Sugarski will finish her internship at St. Joseph Hospital in Mt. Clemens, Kathy, on August 13, 1966, will obtain her second degree. This one bestowed upon her will be the degree of "Mrs." Raymond Palodurak, Congratulations to both you and Ray.

Mike Zimchik will finish his internship at Nottingham Pharmacy. He plans to join the Navy in January, 1966 as a pharmacist mate.

John Jarvis has earned the respect of each member of the senior class for his determination to obtain a degree in Pharmacy. A second degree should be awarded to John’s wife, Sugen. Congratulations John, to your, your wife and five children, Community pharmacy is John’s desire for the future.

Tony Bant will finish his internship at Dearborn Hospital. He will enter Wayne’s Medical School in September for a future in medicine and practice. He claims that teaching may be another of his interests, and may attempt to teach on a part time basis.

Frank Pruitt will finish his internship at St. Caramel Mercy Hospital. He draft classification at the present time is IA, therefore, any immediate plans are made day by day.

Gary Gacka Ortiz is strongly looking toward a job in the "Peace Corp". If this does not work out, he will try to enter medical school at Arteson State College and hope to someday return to Puerto Rico and practice there.

Bennie Friedman has planned to enter E.O. school in January, 1967. He will work at Arden Drugs to finance his education, and is seriously thinking of entering the military service. He hopes to continue his education in some capacity.

No matter what area of practice we go into, we must always remember that we are now professional men and our everyday actions should be in accord with our high professional standards and ethics. Our profession can only be as good as the men in it.

The Wayne Pharmac
Graduate School
by Fred Kamienny

Every day of every month of every year, new and more beneficial pharmaceutical preparations find their route to become tools of the health professions. It is the pharmacist who is at both ends to become tools of the health professions.

However, there is a price to pay in order to obtain any of these opportunities. As the old maxim of Publius Syrus decries, "Everything is worth what the purchaser will pay for it." Or as Miguel de Cervantes says in Don Quixote, "It is past all controversy, that what cost dearest is, and ought most to be valued." Pharmacy graduate school will take 1-5 years spent as a full-time student, the exact time varying with the degree sought. Admittance to graduate study requires the student to have the equivalent of a baccalaureate degree and adequate preparation and ability to pursue graduate study in the major field selected.

Graduate study is not the only direct application of pharmaceutical education to be used in the pharmaceutical houses of the world, but indirect applications are more numerous. Some may be mentioned: the fields of the paint chemist, the photographic and surface chemist, the organic chemist, the botanist, the administrator, and so on ad infinitum.

The College of Pharmacy at Wayne State University offers a Master of Science program in hospital pharmacy, pharmaceutical administration. The Doctor of Philosophy program also is offered.

Honors Convocation

Since 1964, the College of Pharmacy has held Honors Convocations to recognize students outstanding in academic and extra-curricular activities. These provided a more intimate recognition than was possible at the large honors program sponsored by the University in 1966. The University is assigning its Honors Convocation, and probably will not list the award winners in the commencement program. Our College program now assumes a greater significance.

Our early College convocations were held in one of the lounges in MacKenzie Hall and later in McGregor Memorial Center or in the Alumni Lounge. Beginning in the spring of 1965, the convocation was held for the first time in College facilities in the lecture room in Shapero Hall.

Our first fall awards were presented October 8, 1957, at a special Pharmacy Week meeting sponsored by the Student Chapter of the American Pharmaceutical Association. In the Fall of 1959 a somewhat enlarged convocation was held during National Pharmacy Week under joint sponsorship of the Student Chapter and in 1960, entirely under the sponsorship of the Honors Convocation.

(Continued on page 22)

The Wayne Pharmacist
WOULD YOU BELIEVE?

by Kathy Sugierski
and Carlos Ortiz

Professor Dafohnata as a consultant for McGregor Sweaters, Inc., Dr. Mulvey as the head of a notorious ring of dog-nappers, Mr. Delbert Konnor as a go-go dancer at the "Hello Daily", Ken Schultheis as a priest, John Jarvis as a cellist, a monk, Mrs. T. as a consultant for Banner Linen Company, Fred Band as a laboratory instructor in Dispensing Lab, Al Margolis as a butcher, Bill McLay working for the U.S. Public Health Service, Jim Henderson as the leader of "Hello's Angels", Jan Hunter winning $32,000 in the pro golf circuit, Ted Oulette as a general practitioner, Tom Rolands, being a photographer, and spotting a toga party on the Upjohn trip.

Macy believes anyone throwing a toga party on the Upjohn trip... would you believe: Dick Iczkowski is a priest, Anthony E. Boutt as the father of quintet, Ian MacGillivray as captain of the Musketeers, and John Dean Barr as basically an electrician.

Bill Zmich buys his shoes for comfort and sweaters for warmth... Would you believe: Mark Balmaz as Elmer Gantry, Mike Marx the Clyde Bruckner of Pcl. Lab., Jack Gill as a Greek hero, Tom Haschans as an instructor at Vic Tansey's, Chester Scott as a famous hunch Miller, Kathy Sugierski the founding member of Kappa Epsilon sorority, Mary Ann Dziurlikowski opening the "His and Hers Pharmacy"... Would you believe: Dick Sawick as the ring leader of the Detroit chapter of the Sharks, Milt Miller as a beatnik artist, and Gary Helper as the two, capped cruzadores fighting a never ending battle for truth, justice and the APHA... Charlie Weinert can't dance... Bernie Friedman as another Walter Winchell, Jan MacGillivray as captain of the Mousetracks... Don Giesenske starting a correspondence course in physics with "discounted" rates to all seniors... Fred Buxton the father of quintet...
Mary Ann Dziurlikowski
23; Married
Lambda Kappa Sigma
Student Advisory Board
APhA

Barron Fill
25; Married

Gerald DaFrease
23; Married
Kappa Psi
Student Advisory Board
APhA

Thomas Graham
25; Married
Phi Delta Chi
APhA

Eugene A. Coe
22; Married
Kappa Psi
APhA

Bernard Friedman
24; Married
Alpha Zeta Omega
APhA

Zack Gill
22; Single
Phi Delta Chi
Wayne Christian Fellowship
Wesley Foundation
APhA

Gary Helper
23; Single
Alpha Zeta Omega

James Henderson
26; Married
Kappa Psi
APhA

Peter Krajewski
23; Single
Kappa Psi
APhA

Fred S. L. Lane
29; Single
Phi Delta Chi

John G. Jarvis
26; Married
Phi Delta Chi
Student Advisory Board
Wayne Pharmic
APhA

John M. Laenen
23; Married
Phi Delta Chi
APhA

Fred Lindstrom
24; Single
Alpha Zeta Omega
Student Advisory Board
APhA

Gary Helper
23; Single
Alpha Zeta Omega

Phyllis Jan Hunter
23; Single
Student Advisory Board
APhA

Wayne Christian Fellowship
Wayne Pharmic
APhA

Wayne Pharmic
APhA

Wayne Pharmic
APhA

Wayne Pharmic
APhA

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APhA

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and
Public Health
in
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Bids a cordial welcome
into the profession of
Pharmacy
to the graduating class
of the
College of Pharmacy

Wayne State University