The Wayne Pharmic
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PHARMIC IS BACK!

Having spent three years in retirement, Pharmic is attempting a comeback. The P.S.A.B. has supported this effort with the hope that it will help to increase communication and stimulate involvement among third, fourth, and fifth year pharmacy students as well as faculty. A lot has been happening over the past year and this issue of the Pharmic has presented some of the highlights. Various student organizations have reported on their activities and plans for the future. In addition, there are articles which explore opportunities available in pharmacy for interested students.

Hopefully Pharmic will not again fall dormant, but will flourish and remain a vital part of student activities.

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Fifth Year Class Pictures Provided by C.I.T.

THANK YOU

I want to express my gratitude to Tim Coens who generously contributed his time and talent to design Pharmic's artistic cover. His originality has given this issue of Pharmic a truly unique appearance.

I am deeply grateful to Fr. Frank Faciane for consenting to be my faculty advisor. He has been a tremendous help and an invaluable source of information.

I want to thank Dean Mammen, Dean Munzenberger, Dep. Dean Ryan and Dr. Schell for all their assistance and co-operation throughout the past year. I also want to thank their respective secretaries, Mrs. Zarb, Laura Paige, Elizabeth Ware, and Barbara Dayton for helping and putting up with me all year.

I am also grateful to Paul Walker and Dave Baczewski for loaning me the pictures they took at last year's picnic. Pharmic wouldn't have seemed complete without recollecting those events of last summer.

I also want to thank all those who advertised in Pharmic and those who took the time to write articles. It is through the efforts of all these wonderful people that this publication was made possible.

Many thanks to all!

Connie

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Dr. Charles F. Ryan joined the Wayne State University Faculty in July 1979 as Professor of Pharmacology and Department Head of the Faculty of Pharmacy, College of Pharmacy and Allied Health Professions.

Dr. Ryan first became interested in the profession of pharmacy when he took a part-time job in a pharmacy at the age of 11. In addition to learning how to make ice cream sodas and sundaes, running the cash register and other assorted duties, he learned a great deal about the profession of pharmacy and developed a vast respect for the pharmacy image projected by the pharmacist for whom he worked. In fact, his association with this pharmacist in a small town, Indiana “drugstore” led him to determine to pursue a career in pharmacy himself.

After graduating from high school, he attended Purdue University where he earned the B.S. degree in pharmacy. After graduation, he practiced community pharmacy in a chain store setting in several towns in Indiana before returning to graduate school at Purdue University. At Purdue University he earned the M.S. degree in Pharmaceutical Chemistry and the Ph.D. degree in Pharmacology and Toxicology.

After completing graduate school, he took a position as Assistant Professor of Pharmacology and Toxicology at the University of Wisconsin where he was involved in teaching pharmacology, toxicology, and radiopharmaceuticals at the undergraduate and graduate level. After spending four years as an Assistant Professor at Wisconsin, he accepted a position as an Associate Professor and Chairman of the Department of Pharmacodynamics and Toxicology at the College of Pharmacy of the University of Nebraska Medical Center in Omaha, Nebraska. While at Nebraska, he was extensively involved in teaching pharmacology, therapeutics and toxicology at the undergraduate and graduate levels. He also served as a pharmacist consultant to the planned children’s clinic of Omaha-Council Bluffs for two years.

Dr. Ryan has developed a number of research interests over the years and has been involved in a variety of research projects. His primary research interests include autonomic pharmacology, drug-receptor interactions and toxicology. One of his current research projects involves a study of the effects of various drugs upon activated charcoal. Activated charcoal is commonly used as an antidote in a variety of accidental poisonings. The activated charcoal absorbs any poisonous material which remains in the stomach. He is currently studying the effect of a variety of substances upon the ability of activated charcoal to absorb and inactivate orally ingested poisons. Dr. Ryan is continuing his research in this area and is continuing education activities at Wayne State University in addition to his administrative responsibilities.

Wayne State University
SAPhA

Dr. Charles F. Ryan
Deputy Dean of Pharmacy

The Pharmacy Student Advisory Board is a representative organization of the pharmacy student body of Wayne State University College of Pharmacy and Allied Health Professions, organized for the purpose of advancing the College, the University, and the profession of pharmacy. These words are from the preamble of the old P.S.A.B. Constitution. Unfortunately, the remainder of that Constitution was unable to provide the means for reaching the goals of such an organization. That is why this year, several members of the P.S.A.B. have organized a committee to rewrite the Constitution. Their main goals were to provide a satisfactory procedure for election of class officers, to create a student board active in alumni and student activities, and to draw the public’s attention to the importance of pharmacy by providing student activities within the community.

With the help of many fine students, these goals have been accomplished. For example, the P.S.A.B. assisted Dr. Spiegel of the nervous control center at children’s hospital in organizing and preparing a group of pharmacy students to present a program on poison prevention to several Detroit area community groups. In addition, the renewed publication of the PHARMIC signals the P.S.A.B.’s start towards reaching the goal of increasing communication within the pharmacy student body, as well as with the various state and national organizations that affect the education and future of pharmacy at Wayne State University.

Another function of the P.S.A.B., and certainly not the least, is the planning of the spring picnic. Last year’s picnic was a tremendous success, and though it is still in the planning stages, this year’s picnic promises to be one of the highlights of Spring Quarter.

In closing, on behalf of the P.S.A.B., I would like to thank the deans, faculty, and all the great students who have actively, or in spirit, supported us throughout the past year. I would like to offer a special thank you to Dean Munzenberger and Laura Paige who together have kept things running smoothly. I wish you continued support so that as pharmacists we can share in the rewards of an active, progressing pharmacy profession.
Something New
By Nancy Malynas

Do you know why you wear rubber gloves when fitting elastic stockings? Ask someone who has taken this special elective; he should know!

The "special" elective was a class about surgical garments. It was offered through the Pharmaceutics Department and was co-ordinated by Dr. Gary Fenn. The course was taught by three representatives from the educational department of Camp International, a manufacturer of surgical supports and braces, head-quartered in Jackson, Michigan.

The course was offered over three days, Friday January fourth through Sunday January sixth for eight hours each day. Instruction was given about surgical garments, cervical and back braces, elastic hosiery, mastectomy products and postural aids. Morning sessions were spent viewing slides about the garments and watching demonstrations of fitting procedures on "able bodied" volunteers. The afternoon sessions were spent in actual "hands on" experience with the garments. Each student was required to properly fit five different kinds of garments on another student model. An open book, written examination was also given. A minimum score of 85 was needed for successful completion of the course.

Students who pass the course will receive two professional elective credits and a certificate of completion from Camp International.

This type of class has been offered at other schools, but this was the first time for Wayne State. Camp International offers a five day class which is more extensive and upon successful completion, the person becomes a certified "fitter" of surgical garments.

By the way, why do you wear rubber gloves to fit elastic hose?
The summer of '79 I had the opportunity, along with three other pharmacy students, to participate in the NPC internship program at the Upjohn Company in Kalamazoo, Michigan. I would like to share with you my experiences and thoughts on the ten weeks I spent in industry.

Initially, we toured various parts of the company to become acquainted with some of the operations. First we took a general tour of production, walking through the entire plant to get a look at the manufacturing process of tablets, capsules, creams, ointments, liquids, and gelformulations.

Next, I found myself on the way to Jackson Prison to visit the Upjohn Clinic within the walls of the prison. Prison testing is a very controversial subject, but after the protocol which is followed there is no doubt in my mind that this is the ideal and controlled setting for testing of drugs. The inmates go through a complete physical and must sign an informed consent. Once they have been selected to participate in a particular study they become residents within the clinic itself. Many of the variables in drug testing are eliminated by using prisoners. Some of these variables include diet, dosage administration, and the blood and urine sample collection times.

As is the case in the pharmaceutical industry, research is the key to future medical breakthroughs. Research is very important at the Upjohn Company, as I saw when I toured their research facility in downtown Kalamazoo. It is because of the efforts and money spent on research that we have the highly potent and effective drugs available today.

After a product is manufactured and packaged it is sent to the warehouse for distribution. But, just because a product is in the warehouse, it does not mean it is ready for distribution. Within the warehouse there is a quarantined area in which drugs are stored until all testing is completed and satisfactory results have been attained. Nothing is released from this area without the authorization of quality control.

I had a chance to work in the sterile lab on a compatibility study of Solu-Medrol in IV's. The results of this study should be published this year. When the company is considering the use of a new supplier, samples are received and evaluations are performed in order to see if the material meets Upjohn's specifications, which are more stringent than U.S.P. requirements. While in the sterile lab I also prepared a batch of bacitracin received from a new supplier so that an evaluation could be made.

After production, I spent two weeks in Pharmacy Research and Development. The first week was spent in the Sterile Technology Lab working with an instrument known as a 'Hic.' which is used in counting particulate matter. In this lab I was working on a stability study of various injectables manufactured in different plants around the world.

The second of these two weeks was spent in the Solid Products Lab. I had the opportunity to prepare a granulation from beginning to end, starting with the weighing of the raw materials right to the point of seeing the finished product coming off the tableting machine.

After getting a look at granulation, I also worked with a direct compression formulation of a chewable placebo to be used in a clinical trial. I was given a proposed formulation and allowed to work with it and improve it. When I ran into the problem of the punches sticking, I actually had to utilize the information about lubricants, glidants, and binders from physical pharmacy.

Weeks seven and eight I worked in the Quality Control Lab. During these two days I spent in the packaging area with the people from control, observing what must be done before a new lot is packaged. This includes checking in the product, boxes, packers, labels, shipper, and machinery itself. I was also able to view the people from control in action as they took samples from the lines and ran checks on weight, appearance, and torque pressure of the caps.

After getting this feel for what goes on with control in the packaging area, I started a project of my own. This project involved looking for the preservatives used in all the ointments, fluids, creams, and soft elastic capsules. I received a list of the preservatives used and then I was required to go to the 'Where Used Book' and determine which products contained which preservatives. From there I went to the label copy room and looked up all of the labels to determine if the preservative was listed on the label and in what concentration. I then went to Production Co-ordination Services and looked at a random batch of all products containing preservatives in order to determine the theoretical concentration of the preservative. After this I went to the control procedures to see if these preservatives were routinely checked for and to determine what method was used. I was able to run a history retrieval of all the products upon which assays were done to determine how much the assayed values deviated from the theoretical concentration values. Next, I visited the stability office and looked through their files to determine how many lots and for what length of time stability was being run on these products. From all this information I was able to run a regression analysis to determine at what rate the preservative degrades. I also spent some time looking through the files in the preservative lab to determine upon which products the preservative effectiveness studies have been done. From all the data I have compiled they will make decisions about products for which the preservative is used and possibly come up with a procedure for the assay of it in the future.

My last two weeks in industry were spent in the marketing and sales area looking at what is involved in test markets and marketing research. In sales training I found that the representatives out in the field are well trained and very knowledgeable about their products and the disease states for which these products are used. I also had an opportunity to spend two days in the field in Fort Wayne, Indiana with one of Upjohn's top representatives.

If you are looking for a unique experience and are interested in exploring other options open to a pharmacist consider applying for an NPC internship in industry.
On March 15th we celebrated Hygeia Day. On this day, tribute is paid to Hygeia who, according to Greek Mythology, was the first woman pharmacist. A scientific and professional program is arranged to observe this day. This year the program consisted of a demonstration of the Heimlich maneuver, a technique used in removing obstructions from the trachea. Being familiar with this life-saving procedure could prove to be invaluable.

This June, fifteen of our members will be graduating, Daina Astasitis-Shutte, Janel Bonus, Joan Coens, Nancy D'Hondt, Cynthia Filipovich, Mary Kijorski, Jean Kovalchik, Candace Lamos, Nancy Matyunas, Sue May, Margaret Mazur, Coreen Nakayama, Barry Ryckman, Connie Smith, and Mary Thoons. We would like to take this opportunity to congratulate them and wish them success as they embark upon their careers in pharmacy.

That brings things up to date. This year we have attempted, through our activities, to enhance the concept of professionalism among women in pharmacy. We hope that next year this ideal will reach even greater heights.

The Lambda Kappa Sigma members of Lambda Kappa Sigma have been very active, both professionally as well as socially. Last December we initiated nine new members-Bonnie Bohl, Carolyn Benner, Jackie Burrell, Joyce Comer, Pam Geboski, Abbygal Hoffmann, Rashidah Shah, Carolyn Tolbert, and Doreen Wray. We celebrated the occasion with a formal banquet at the Shores Club in St. Clair Shores. We hope our new sisters will be enriched by their membership in the fraternity.

We would like to extend a warm welcome to our new faculty advisor, Mrs. Geralynn Smith, who joined Wayne's staff last year. She received her B.S. in Pharmacy from Rutgers University. She then attended St. John's College of Pharmacy and Allied Health where she earned her Master's Degree in Institutional Practice. She worked at St. Joseph's Hospital in Patterson, New Jersey and was an adjunct faculty member at St. John's. Presently, she is a clinical pharmacist at the Health Care Institute and is the Pharmacy Satellite Supervisor. She is also the co-ordinator for the OTC course and is in charge of clerkship at the Health Care Institute. We are very proud and pleased to have her with us and look forward to a long association with her.

Last spring we were pleased to host the LKS mini-regional convention. Delegates from Toledo and Ferris were represented, as well as members from our own chapter. It is always a pleasure to have the opportunity to meet our sisters from neighboring areas. Highlights of the day included a lecture on ostomy products and seminars at which ideas were exchanged. For a delightful final touch, we went to the "Greekkown" for a delicious dinner. The event certainly proved to be both an educational and enjoyable experience.

LKS has also been baking up a storm. We have held several successful baked-goods sales, much to the delight of everyone at HSB. In addition to providing tasty treats, the sales have helped relieve our financial woes.

On October 14th we celebrated Founder's Day at the home of Mrs. Geralynn Smith. On this occasion, we honor our founder, Ethel J. Heath, and charter members with a traditional ceremony. After the ceremony, a business meeting was conducted, followed by refreshments.

Once again at Christmas we contributed to Focus Hope, a program for undernourished or underprivileged families. We are very happy that we are able to lend our support to such a worthy cause.

Recently, Mu Omicron Pi chapter initiated nine new members into the Brotherhood, bringing our total to 40 active members. All of the new initiates are third year students, inspiring a strong and active fraternity for years to come.

Last year marked a milestone for Kappa Psi, as we celebrated our 100th anniversary, making ours the oldest pharmaceutical fraternity in the nation. In honor of the occasion, Mu Omicron Pi chapter held a "Centennial Week," which included two champagne socials. The gatherings were made very successful by the attendance of many faculty, graduate brothers, college brothers, and friends. The week was topped off Friday with a Centennial Beer Bash which was enjoyed by many students of the college and their friends, as well as brothers from our neighboring chapters from Toledo and Ferris State.

During the summer break, everyone was surprised when our second annual Pig Roast turned into our first annual Corn Roast (because the pig just wouldn't cooperate).

Our annual Awards Banquet saw 18 members receive Scholarship Honors, the most ever given out by Mu Omicron Pi. As mentioned, the Fall brought nine new members into the collegiate chapter, but the Detroit Graduate Chapter was also pleased to welcome a new brother, Dr. Charles Ryan, Deputy Dean of Pharmacy.

Once again we held a special lecture for students and faculty of the college as Ms. Penny Hogan, a staff pharmacist at Henry Ford Hospital, presented an interesting talk on "Total Parenteral Nutrition."

The best news came early in the winter quarter when Mu Omicron Pi received word that they were awarded the privilege of hosting the 1981 Kappa Psi National Convention, further enhancing Detroit's new image as the "Renaissance City." Even though it's more than a year away, we have already begun making arrangements so that Detroit will be host to the best Kappa Psi Convention ever.
The Second Annual S.A. Ph.A.-M.P.A. Pharmacy Student Retreat was held on January 12, 1980 at Long's Banquet Center in Lansing. The retreat was co-sponsored by the S.A. Ph.A. chapters from Wayne State University, Ferris State College, and the University of Michigan. While only approximately one hundred students participated, this year's retreat was still hailed a success. The retreat featured a program on "Ethics in Pharmacy" and a discussion of the Pharm. D. degree, as well as the Annual Clinical Pharmacy Bowl.

The morning session was highlighted by the program on "Ethics in Pharmacy" by Reverend Francis X. Quinn. Reverend Quinn employed the audience in his presentation by placing individuals into situations requiring ethical decision making. While agreeing on basic fundamental principles, the audience often seemed divided when it came to specific cases. In conclusion, Rev. Quinn emphasized his fundamental principle concerning ethics as being one of personal conscience.

After breaking for lunch, the afternoon session began with a panel discussion of the Pharm. D. degree as the first professional degree in pharmacy. The format was such that a speaker from each of the three colleges presented that college's plan for changing over to the single degree. Deputy Dean Ryan presented Wayne State's plan as one leaving the option for the student to earn either a Bachelor of Science, a Pharm. D., or an M.B.A. degree.

After the conclusion of the Pharm. D. discussion, the retreat moved to the Oak Park Athletic Club for a reception and the "Second Annual Clinical Pharmacy Bowl." Wayne State's representatives were Dr. Andrea Vivian from the clinical faculty and Chuck Gwizdala, a fifth year student. The faculty jumped out to an early lead, and although the student team made a small last minute comeback. The faculty held its lead to avenge last year's defeat. After the conclusion of the retreat, the consensus was that it was a very worth-while experience.
CONGRATULATIONS TO THE
GRADUATING CLASS OF 1980

PHI DELTA CHI
Professional Pharmacy Fraternity

KAPPA PSI MUOMICRON
Kappa Psi Professional Pharmaceutical Fraternity
Mu Omicron Pi Chapter

The Brothers of Kappa Psi would like to congratulate the first graduating Class of the
Enchanting Eighties. The graduating Mu Omicron Pi Brothers are:

K. Brandemihl  G. Carrick  C. Charlton  R. Christensen  D. Corsi  L. Diamond
P. Gwizdala  T. Hanser  J. Hite  A. Johnson  J. Kawwes
M. Kuehn  H. J. Mioduch  J. Prybylski  A. Stomka  D. Smith  D. Stayer
T. Stuart  M. Sugarman  G. Szpunar  D. Ventimiglia  J. Wilczynski  K. Woods

The current active Brothers of Mu Omicron Pi Chapter are:

S. Snider  D. Stayer  M. Sugarman  G. Szpunar  P. Telmyk  N. Tuchten  D. Ventimiglia  J. Wilczynski  K. Woods

Rev. F. P. Facione
Co-Grand Council Deputy

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