Pacemaker 74

Yearbook of the
College of Osteopathic Medicine and Surgery
Sponsored by the
COMS Student Council
and
Sigma Sigma Phi Fraternity
# Pacemaker 74 Staff

<table>
<thead>
<tr>
<th>Role</th>
<th>Names</th>
</tr>
</thead>
<tbody>
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<td>Dave Brauner</td>
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<tr>
<td><strong>PHOTOGRAPHY</strong></td>
<td>Brian Finkel, Tom Lee, Elliot Neufeld, Paul Panebianco, Dean Teeter</td>
</tr>
<tr>
<td><strong>DEDICATION</strong></td>
<td>Dave Brauner, Steve Gleason</td>
</tr>
<tr>
<td><strong>GRADUATES</strong></td>
<td>Dave Brauner, Paul Panebianco, Elliot Neufeld, Scott Tilleston, Bob From</td>
</tr>
<tr>
<td><strong>FACULTY</strong></td>
<td>Jim Kantor</td>
</tr>
<tr>
<td><strong>CLINICS</strong></td>
<td>Dave Brauner, Scott Tilleston, Jim Yarnel</td>
</tr>
<tr>
<td><strong>DES MOINES GENERAL HOSPITAL</strong></td>
<td>John Wulff</td>
</tr>
<tr>
<td><strong>MERCY HOSPITAL</strong></td>
<td>Dave Webster, Mark Reinertson</td>
</tr>
<tr>
<td><strong>CLASS OF 1975</strong></td>
<td>Sam Singer, Dean Teeter, John Kmetz, Paul Haberer, Harris Neuman, Tom McKnight, Charles Hughes</td>
</tr>
<tr>
<td><strong>CLASS OF 1976</strong></td>
<td>Dave Little, Dennis Shimp, Gary Teigland, Roger Harris</td>
</tr>
<tr>
<td><strong>ACTIVITIES</strong></td>
<td>Norm Novelly, Marianne Klem, Debbie Barton</td>
</tr>
<tr>
<td><strong>BOOSTERS AND ADVERTISERS</strong></td>
<td>Steve Richards, Sigma Sigma Phi Fraternity</td>
</tr>
<tr>
<td><strong>HISTORICAL REVIEW</strong></td>
<td>Dave Brauner</td>
</tr>
</tbody>
</table>
# Table Of Contents

<table>
<thead>
<tr>
<th>TITLE</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEDICATION</td>
<td>4</td>
</tr>
<tr>
<td>ADMINISTRATION</td>
<td>10</td>
</tr>
<tr>
<td>GRADUATES 1974</td>
<td>12</td>
</tr>
<tr>
<td>HISTORICAL REVIEW</td>
<td>97</td>
</tr>
<tr>
<td>FACULTY</td>
<td>107</td>
</tr>
<tr>
<td>STAFF</td>
<td>113</td>
</tr>
<tr>
<td>CLINICS</td>
<td>116</td>
</tr>
<tr>
<td>HOSPITALS</td>
<td>132</td>
</tr>
<tr>
<td>CLASS OF 1975</td>
<td>158</td>
</tr>
<tr>
<td>CLASS OF 1976</td>
<td>194</td>
</tr>
<tr>
<td>ORGANIZATIONS</td>
<td>234</td>
</tr>
<tr>
<td>SUPPORTERS</td>
<td>257</td>
</tr>
</tbody>
</table>
With a quiet manner and slow deliberation, Dr. Jack Spevak affords the best in pediatric medicine to Iowa’s little people.

As a student on Dr. Spevak’s service, one becomes awed by his gentle calm and his academic prowess. You and the good doctor work from early morning to late evening, eating an occasional potato chip in the hall between patients. Somehow, the comforts most men enjoy, lose their significance when compared to the afflictions of the children before you.
Without coercion, you study diligently, his inspiration and reinforcement become your remuneration. He answers your questions with journal quotes and glancing smiles.
His lectured thoughts become a cherished textbook, worn by your constant re-assimilation. You read. You ponder. You remember the face of late night preparation. His deepened voice; his half closed eyes; the clapping hands at his lectures end, although unwritten remain imprinted between the lines. Although of allopathic vintage, Dr. Spevak has fought undeniably for osteopathic equality within the health profession. In one short year, Dr. Spevak has developed one of the strongest pediatric departments in the college’s history. Without prejudice, he offers the benefits of his expertise. As an expression of our deep appreciation, Pacemaker 74 is dedicated to Jack Spevak, friend and physician. As a teacher, he has been a constant inspiration.
We, however, are aware that the real benefactors of his sagacity are the little people we shall treat in the years to come.

The Graduating Class Of 1974
The Compleat Paediatrician
It is a rare privilege a president enjoys when he dedicates a college annual to the class that graduates in the 75th year of the institution's existence. I am delighted to extend my warmest felicitations and greetings to the graduates of 1974. Your class represents the culmination of seventy five years growth and striving together to create a fine osteopathic medical school and fine physicians.

Yours, as osteopathic physicians, is the privilege of joining a vital and vigorous healing art. It is interesting that in the recent decision by the Supreme Court of California, the osteopathic philosophy of medicine was categorized as a complete healing art, including all of the modalities plus manipulation. This concept of a "complete healing art" is something that has never been used in describing any other branch of medicine.

We have the right to be proud of what you are—well-trained, family-oriented, humane physicians. It is our hope that we will have as much right to be proud of what you become. For what you are today is the embryo of what you, as physicians, will be tomorrow. The way you practice your art will largely determine the quality of many communities in which you find yourselves. We urge you to be worthy of your profession and of the College of Osteopathic Medicine and Surgery which bestows its degree upon you and, therewith, confers upon you its ultimate approval.

We hope yours will be a happy, productive, and fulfilling life.

J. Leonard Azneer, Ph.D.
President
TO THE CLASS OF 1974

The embryo has grown, matured, developed and nurtured and is now prepared to venture out into the world.

It has been a privilege and a pleasure working with you, knowing you, worrying about you, prodding you, and witnessing your growth from yesterday's struggling students to tomorrow's "par excellence" physicians. You will embark on careers throughout the nation—some of you will remain in Iowa and the midwest, some of you will enter the military or public health service. Wherever you go, it is our hope that we have provided you with an adequate educational program and instilled in you a high degree of competence and stimulation which will carry you through to become the fine physicians we know you are.

Don't forget us . . . when the child leaves home, the parents don't stop caring - and when you leave COMS we will not stop caring. We would like to hear from you, we hope you will accept our support and lend us your support - we hope those of you who will be living in warm sunn climates will remember that we need some of your sunshine.

As you leave the College of Osteopathic Medicine and Surgery, go forth knowing that you leave with my love, concern and very best wishes for health, happiness and a successful, stimulating, and rewarding career in osteopathic medicine.

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RIGHT: Doctor McNeil and Student Doctor Felmlee greet visitors at the old North East Clinic. BELOW: Doctor McNeil, Medical Director North East Clinic. BELOW RIGHT: Future site of North-East Area Health Clinic.

Northeast Clinic
The recently completed North-East Clinic represents a major step towards health delivery to the hard core poverty area on Des Moines northeast side.

The medical staff at present includes one licensed physician, plus senior students from COMS. The clinic provides general family practice medicine and specially care referral. The clinic will eventually provide training for up to twelve students.
Southeast Clinic

ABOVE LEFT: Pat Ratliff L.P.N. and Charlotte Humphrey L.P.N. at reception desk
ABOVE RIGHT: Doctor Stork, medical director Southeast Clinic
BELOW: Doctor Stork and student Doctor Brinkmeyer
RIGHT: Newly completed Southeast Area Clinic
LEFT: Student Doctor Scott Brinkmeyer
RIGHT: Student Doctor Dale Dodd
Redfield Family Practice Clinic offers the student an ideal exposure to rural general practice medicine. Located forty miles west of Des Moines in a town of nine hundred residents, the facilities are under the direction of two full time staff physicians. Adjacent to the clinic is a seventeen bed hospital complete with intensive surgery, laboratory and radiology. This unique combination of clinic and hospital offers the student opportunity for complete management of patients in the role of the care physician.
Student Doctor Terry Kanning during morning rounds at Redfield Hospital

St. Doctor Brauner and friends
Linda Lantz R.N.-Dir. Nursing
Ann Stonehocker-Lab technician
Student Doctor Dave Webster
Margaret Morrison-Receptionist

Student Doctor Bill Frank
Bonnie Draman-Cook
Student Doctor Terry Kanning
Marie Hudson-X-ray Technician
Darlie Atherton-Business Office
Redfield Family Practice Clinic And Hospital

Redfield Family Practice Clinic offers the student an ideal exposure to rural general practice medicine. Located forty miles west of Des Moines in a town of nine hundred residents, the facilities are under the direction of two full time staff physicians. Adjacent to the clinic is a seventeen bed hospital complete with intensive care, surgery, laboratory and radiology services. This unique combination of clinic and hospital offers the student opportunity for complete management of patients in the role of the primary care physician.
Student Doctor Terry Kanning during morning rounds at Redfield Hospital

Student Doctor Bill Frank
Bonnie Draman-Cook
Student Doctor Terry Kanning
Marie Hodson-X-ray Technician
Dartle Atherton-Business Office

St. Doctor Brauner and friends.
Linda Lantz-R.N.-Dir. Nursing
Ann Stonehocker-Lab Technician
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Redfield Family Practice Clinic and Hospital

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Redfield Family Practice Clinic and Hospital

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Student Doctor Terry Kanning during morning rounds at Redfield Hospital

St. Doctor Brauner and friends: Linda Lantz R.N. (Dr. Nursing) Ann Stonehocker (Lab technician) Student Doctor Terry Webster Margaret Morrison (Receptionist) Student Doctor Bill Frank Bonnie Damman-Cook Student Doctor Terry Kanning Marie Hodson X-ray Technician Darle Atherton (Business Office)
Des Moines General Hospital

With sincere appreciation, we enter this section of Des Moines General Hospital. We thank those physicians whose desire it was to graduate students of the highest medical caliber. Their knowledge and ethics will remain with us as valuable possessions. As the hospital enters its new and exciting phase of expanding facilities and staff, we wish all concerned the very best.

Class of 1974
ABOVE: Doctors Woods and Bates preparing for surgery.

RIGHT: In the recovery room, nursing personnel keep close vigilance on post-operative patients.
ABOVE LEFT: Doctors Rose, Agnew and Bates discuss x-ray findings.

ABOVE RIGHT: Doctor Rose lectures on the importance of differential diagnosis.

LEFT: Doctor Waterbury and student Doctor Wulff perform a post-partum Tubal Ligation.
ABOVE: Doctors Woods and Bates preparing for surgery.

RIGHT: In the recovery room, nursing personnel keep close vigilance on post-operative patients.
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ABOVE RIGHT: Doctor Rose lectures on the importance of differential diagnosis.

LEFT: Doctor Waterbury and student Doctor Wulff perform a post-partum Tubal Ligation.
ABOVE LEFT: Doctor LeMar dictates a completed case.
ABOVE RIGHT: Student Doctor Richards.
BELOW LEFT: Doctor Rose in surgery.

Anesthesiology

BELOW: Doctor Sorenson monitors a patient as he administers an anesthetic agent.
LEFT: Doctor Loeke, Director of Medical Education, conducts interns meeting.
Obstetrics

RIGHT: Student Doctor Wolf performs duties during his favorite rotation.

BELLOW: Doctor Burrows gives advice on a tested technique.

ABOVE FAR: Nurse Martin and patient post partum.

ABOVE NEAR: Doctor Waterbury, department chief.
RIGHT: Student Doctor Elliot evaluates a patient's progress

BELOW: Doctors Hill and Duberstein instruct student Doctor Wulff.

ABOVE LEFT: Doctor Milton Dakovitch.

ABOVE RIGHT: Doctor Robert Kreamer.

BELOW LEFT: Student Doctor Neufeld checks census before rounds.

BELOW RIGHT: Doctor Joseph McNerney.
E.R.

RIGHT NEAR: Doctor Terrell.

RIGHT FAR: Student Doctor Felmlee sutures a laceration.

BELOW: Student Doctor Finkel examines skull series.

ABOVE: Student Doctor From and Nurse Hildrew.

LEFT: Doctors Egly and Meyers.
ABOVE FAR: Mr. Ed Tate.
ABOVE NEAR: Doctors Schwartz and Agnew.
ABOVE RIGHT: Student Doctor Gustafson.
RIGHT: Student Doctors Neufeld and Cagin.

LEFT FAR: Student Doctor Seklecki.
LEFT ABOVE: Student Doctor Gleason.
LEFT BELOW: Student Doctor Griffin.
BELOW: Student Doctor Jennings.
Surgery

Dr. Hull

Joe Poschner
David Rosenberg

Greg Hoekstra

Joe Poschner

Mark Taylor

Internal Medicine
Mount Clemens Hospital
The class of 1975 wound up the year with a class roster of 146 members. The year was an eventful one as we completed our second year in school and at the new campus. Various problems developed among class members and the administration and the solutions seemed at times to be miles away. However, with cooperation based on opening up the lines of communication, these problems were handled in an adequate manner. In May the class took Part I of the AOA National Boards. With nerves strained all students put their best forward and braved the typographical errors that plagued this year's exam. (ABOVE), Dr. Brown's expression during the Osteopathic Practical Exam reflects the opinion held by a number of students. Jim Hardinger is shown performing a cervical manipulation under the "watchful eye" of Dr. Brown. After the AOA boards the class had a party in the back parking lot of the school. (UPPER LEFT), Doran Christensen demonstrates the latest fad in the country by doing the "STREAK"! ! ! (UPPER RIGHT), Larry Tyler, Steve Hart, and Jay Clark act the part of the "Three Stooges" during the post-exam festivities. (LOWER LEFT), Dr. Routman enjoys the party despite the cloudy weather and cold that prevailed during May. (LOWER RIGHT), With an abundance of potato chips and beer in hand, a well-known group appears content to sit and watch . . . knowing that the Boards are over . . . at least until October.
Note Pool

Backed by 110% participation, the note pool was the only activity able to overcome student apathy and indifference to classes at COMS. Characterized by an organization and management superior to that shown by many departments and lecturers, the note pool taped, transcribed, and distributed each day's lectures. With different students transcribing lectures every day, people who otherwise would never attend class came to pick their tape and meet their fellow classmates. In addition, Bob Sachs' multi-colored blackboard announcements dramatically increased class attendance for that hour before notes would be distributed.

From inauspicious beginnings in our Freshman year, great improvements in the note pool made in the next few months were largely the responsibility of Mark Meisel who consequently fell ill with mononucleosis. Jay Kaner filled the vacuum thus created until the beginning of the Sophomore year when Doran Christensen assumed leadership. To ameliorate the problem of "missing" and "insufficient" copies, Bob Sachs volunteered to announce and oversee the distribution of the golden notes. Bob also became the receiver and rectifier for most complaints. Doran's last act before resigning was to appoint Frank Wojciechowski to police the note scene and prevent sticky fingers from taking extra notes.

There were a few unsung heroes working behind the scenes. Dick Evans not only generously supplies his tape recorder but also attended many 8 A.M. lectures just to operate the machine. Mike Scheer stoically persevered in printing notes for a year; Dean Teeter and Howard Katz now have that thankless job.

In conclusion, the note pool has been the most noteworthy exemplification of the Class of 1975's never ending effort to further advance medical knowledge. Our note pool has been so effective that many professors will be employing our notes in the near future to author textbooks that will at least be comprehensible.
A Salute To Some Workers
In The Class And College

Concerned students become concerned physicians: when students are allowed to participate fully in decisions concerning the profession, prevailing apathy will metamorphose to intelligent activism.—Doran Christensen, 1974

These pages of the yearbook are dedicated to some of the people in the class and college who have surrendered many hours of class, study and leisure to improve the educational process at COMS. At the TOP of the left page are the class officers (Left to Right: Doran M. Christensen, 1st Vice-President; Jay J. Kaner, President; Darryl Aarons, 2nd Vice-President; Edward L. Ebert, Treasurer; and Cherryl Collman, Secretary). In the LOWER LEFT corner are the Student Council representatives (Darryl Aarons, Laurie Woll, Bruce W. Duffy, Alex Leeds, Don N. Peaka, Edward L. Ebert, and Doran M. Christensen). In the LOWER CENTER picture are Edward Ebert and Doran Christensen abreast. Doran is President of SOMA at COMS and national Vice-President, while Ed is local Secretary-Treasurer.

Dr. J. Leonard Azneer, President of COMS is caught in a moment of deep thought in the UPPER RIGHT CORNER. Just to the LEFT, he is seen discussing student affairs with Jay Kaner and Doran Christensen. In the LOWER RIGHT CORNER, is Dr. C. E. Worster, Director of the Specialty Clinics, in a relaxed pose.
Advanced Medical Studies: an experience to be remembered. Eleven individuals were challenged by a medical education program designed for independent study integrated with constant clinical exposure. Interdisciplinary subject matter allowed an integration of systems and disease processes. They demonstrated that it was possible to obtain the basic education necessary without attending classes. This new approach to education promoted increased student motivation since concentration on one subject integrated with areas of interest enhanced the understanding of each topic. The program was completed in 15 months, thus allowing 18 months for clinical or hospital experience.

Eleven students of the class of 1975 were selected after the initial six week core course in Anatomy to participate in the AMS Program. Competition was keen and many remained disappointed at not being selected. The Special II represent a broad spectrum in interests, background, and geographic origin.

Bill Brown-U. of Wash.-Peds
Jim Beach-Defiance College-OB/GYN
Dave Barton-U. of S. Dakota-Int. Med.
Joe Doro-Columbia-Family Practice
Paul Krueger-Rutgers-OB/GYN
Kip Malick-U. Minnesota-Surgery
Tom McKnight-UCLA-Int. Med.
Les Owens-Downstate, N.Y.-Fam. Prac.
Daryl Steiner-Goshen College-Int. Med.
Terrie Wurzbacher-U. of Miami-Neuro.

This program has allowed the above to decide on their future goals.
Our Faculty

... with a little help from our friends

AMS revealed that independent learning should be an acceptable mode for basic science and systemic medicine background education... and this integrated with exposure clinically and in the hospital from day one on, is the best way to achieve a proficient physician.
The mark of intellectual quality lies in the respect of one educator for another's knowledge. Receptiveness to the opinions of one's colleagues denotes the ever present desire of the expert to sharpen his expertise. Depicted ABOVE are some glimpses of this valuable interchange. Bruce Kaplan clarifies some significant clinical history to Dr. Lee. Glen Gerber points out an interesting symptom in a recently discussed hematologic disease. From LEFT BELOW: Dr. Polich reiterates a pertinent finding in diagnosing GI dysfunction to Howard Spector and Bruce Duffy. Barry Gross summarizes some current therapeutic technique to an attentive Dr. Spevak (PICTURED RIGHT).

Dr. Chandranouli emphasizes early diagnosis of congenital heart defects.
There is no greater educational tool than the “living patient”. In a continuing effort to provide quality in learning, the department of Pediatrics offered us an early exposure to direct patient examination. ABOVE: Dr. Hill offers some helpful hints to an attentive class and equally engrossed subjects (LEFT). BELOW: Rob Petty demonstrates the “Well Baby” examination, Dr. Alberts reviews some notes prior to lecturing on “Approaching the Neonate”, and Dr. Polich clarifies a confusing point.
It became increasingly evident from "DAY ONE" that in-class hours were only a small part of medical training and the student can expect the seeming void to be well filled. ABOVE: Bruce Blackman grabs a shot-of-steam as Pathology ends and the Internal Medicine department stands ready to pick the ball; Dr. Routman demonstrates in tubeation to Zeke Abanishe as the class observes. BELOW: Dr. Francis lends an attentive ear to Zeke as Bruce listens in; and Dr. Orcutt confers some aspects of Pharmacology with Darryl Aarons.
Occasionally, when time permits and finances demand, our students are turned toward supplementing loans, scholarships or support from home.

PICTURED ABOVE: Marty Book is seen returning from the Ruan Garage; and Joe Cerni demonstrates his favorite Sixth and Center hustle.

Dr. Castle graciously accepts applause after a lecture well done.
Modern electronics has become the legacy of today’s clinical practitioner. We see here two of our students, Mike and Don, studying preprogrammed notes while attending a closed circuit televised lecture.

Tantamount to our educational program is providing the most distinguished clinicians available to offer training to the physicians of the future. Dr. Loerke offers some pearls of wisdom on the practice of Anesthesiology.

The surgical appliance has for many years been a valuable adjunct to osteopathic medical therapy. Application demands the skill and dexterity acquired only by years of conscientious practice or the innate expertise in selling ladies millinery as exhibited here by Frank and Craig.
The object of current trends in curriculum planning is to divide the student body into small units allowing greater communication and exposure to the faculty. Pictured above is one such study group (left) viewing a few photographic slides in preparation for an upcoming pathology exam.

Below, Lesley Hanson picks up the week's notes (left) and Pauline Ganger (pathology secretary) explains some examination procedures to the group leaders.
When the challenge of the prescribed academia becomes routine, students seek to broaden their experience and talents. CENTER, Dr. Rose prepares for class in surgical technique assisted by student instructors. ABOVE, Audrey Lewerenz prepares some notes for future clinical conference.

Harry Liventals demonstrates a few dynamics of hypnosis.
Above the whispers is realized the "raison D'etre" of the didactic and practical training presented. Pictured here are the practitioners who offer their skills toward the advancement of Osteopathic principles and practices. TOP ROW: Dr. Connair explains some therapeutic indications for manipulation to Larry Larson (LEFT), and Keith Petrella (RIGHT). BELOW: Dr. Lee, pictured left, and Dr. Teagueston, right, demonstrate a few diagnostic principles of Osteopathic practice. Dr. Byron Laycock, Chairman of the Department of Osteopathic Principles and Practice (SHOWN RIGHT) shares a few excerpts from his volume of anecdotes during lecture and Jerry Markowitz (FAR RIGHT) tries his skill on Marty Book.
The Season's Highlight: Fresh-Soph Play-off

Whichever enthusiasm failed at times to be evident in class bounced high on the court during the basketball season. Most everyone from Dr. Castle to Marty Book, had the "moves." Above is how the freshmen won—with a lot of luck (TOP), a little grace (LEFT) and a bit of muscle (RIGHT). Fortunately, the EKG order by Dr. Dakovich on Bill Barkman's ankle did not reveal any serious pathology. However, auscultation over the gym area revealed a Grade VI/VI dejecte
d sophomore murmur.

I need someone to set a pick for me at the free throw line of life. I need someone to pass to on the give and go and not end up in the popcorn stand... I can dribble with my tongue, I can dunk it with my nose. I'll take on the whole world one on one left hand... I can take 25¢ off the top of the backboard and leave 18¢ change. I've got the moves of Ezelaz...

Basketball Jones
"See one...do one...teach one."
Linus Ohaebosim (ABOVE, LEFT) receives first hand instruction on insertion of the NG tube and Mary Nunchuck (ABOVE, RIGHT) demonstrates proper technique for light palpation.

BELOW, Al Parker performs a thorax correction on Keith Petrella (crunch!!) and Dr. Rose points out some dynamics on the rotating cuff apparatus to Dennis Orr.
Medical education encompasses the spectrum of human experience as depicted by this photo study in contrasts. ABOVE LEFT, Dr. From and BELOW LEFT, Dr. Rolek present a few critical points in the diagnosis and management of the disease state. On the lighter side right, Howard Press (ABOVE) demonstrates his own methods of manipulation to Frank Piccione and Dante Torisio. BELOW, Todd Patterson describes the "Total Experience" of manipulative therapy to onlookers (FROM LEFT) Jeff Wasserman, Glen Gerber, Fred Sager, and Rita Shapiro.
While examinations were numerous and free time hard to come by, the college community found several ways to relax. PICTURED ABOVE: Drs. Kosuri and Sayeed take a few moments rest from their busy schedule following the last Pathology examination as Bob Sachs looks on; Dr. Dakevich offers some enlightening points on cardiac auscultation; Dr. Sachs gives an off hours review of the anatomy of the hand; and Dean Teeter takes some suggestions for next year's yearbook.
As the Class of 1975 completes its second year, we look forward to Part I of the National Boards and for many of us to leaving Des Moines. On these two pages, we reminisce about our second year. On the extreme LEFT, Laurie Woll and Ira Weiner take advantage of a well-planned physiology lab to practice artificial respiration on "Resuscitator Annie." ABOVE LEFT CENTER, "Captain Crunch" reminds us of many hours happily spent practicing OMT. BELOW LEFT CENTER, Kantor, Kaner, Duf-fy, Bayles, Nielsen, Papiash and Marcus eagerly anticipate the mastery of EKG interpretation.

ABOVE RIGHT CENTER, Don Peska registers amazement as Jim Kantor counts the number of possible faculty errors on a basic sciences examination. On the extreme RIGHT, former Dean Senty and urologist par excellence enters the "pit" for lecture. BELOW a crowd of potential Nobel prize winners flock around Dr. Kreamer to obtain approval for their cardiology paper.

Thus does the Class of 1975 end its formal classes at COMS—with a mild case of Weaver's bottom and hopefully a little more knowledgeable—now prepared to enter the hospitals and clinics in pursuit of medical expertise.
Class of 1976

We have reached for a dream, an ideal a way of life. We have sought knowledge, an intuition, an art. We have touched history, sought insight to our beginnings and opened a field of vision to our future. We have achieved a goal. We have taken that first step.

The realization has come upon us with that first step, that at what we will endeavor to use our minds and our hands, is an art. It is a realization that man is finite in his knowledge of medicine, yet infinite in his intuition, recognizing certain small realms as having meaning, a construction within his grasp, yet a broader framework which remains unknown. We will endeavor to seek insight to this vast horison ever cognizant of the limitations at hand, setting high our standards, but with a respect and humility that the awe of life cast upon us. Having achieved all of this we begin by pledging our lives to a life of dedication and service to an art, a practice, a science, caring for and idealizing the sustenance of life.

Mitchell Moriber
President

Class of 1976
Richard Adler
Dennis Amundson
Marvin Arenstein

Harry Arthur
David Avila
Albert Aymer

The Di Virgilio-Chimielewski neuroanatomy team. Dr. D lectures and Dick interprets.

Chris discovers that tests are still given during energy shortages.
ABOVE RIGHT: Karen Kantor and Bill Jagiello perform an appendectomy with the assistance of advanced students.

BELOW: Wayne instructs students in the art of anesthesia before surgery.

As an integral part of anatomy, students receive experience in surgery, using dogs as patients.

STUDENTS (FROM LEFT TO RIGHT):
Duane Barclay
Mark Barnhill
Daniel Beavers
Steven Belen

ABOVE LEFT: Students examining abdominal contents of dog.

STUDENTS (FROM LEFT TO RIGHT):
Irvin S. Benowitz
Jeff Bleicher
Gilbert Bolitho
Daniel Callan

BELOW: "This is going to hurt me more than it does you!"
The anatomy department pointed out the importance of surface anatomy in medicine.

TOP PICTURE: Tom, Ed, and Mitch familiarize themselves with surgical instruments.

CENTER AND LOWER RIGHT: The freshman class expresses its appreciation to John Deagle and Mark Shaw, along with many other willing volunteers, whose work in the note pool made our first year much easier.

MIDDLE RIGHT: OK, you can crack my neck, but you are absolutely the LAST one!
Dr. Toriello was kind enough to present an acupuncture demonstration to our class. He brought some of his patients who talked to the class on their success with acupuncture. The class would like to express its appreciation to Dr. Toriello for talking with us, in spite of his extremely busy practice.

ABOVE LEFT: When I (Dave) went to see Dr. Elmets, Marsha asked if she could watch, but little did they know that it was I who was watching them.

BELOW LEFT: Dr. Sachs: "... and second of all we'll be talking about the bluid."

BELOW RIGHT: "... and so the mirror said to the wicked queen: 'Snow White is the fairest in the land since she doesn't have a blue nevus on her nose, like you do'"
TOP LEFT:
Biochemistry class demonstrates Brownian movement.

BOTTOM LEFT: Dennis Shimp: One of the few biochemistry students that doesn't have to cram for biochemistry tests.

TOP: Mrs. Celander and Ellie Kitchen distribute the inevitable weekly progress exams.

BOTTOM: The Celanders are always on hand to prevent a crucial mistake in the biochemistry lab.

TOP: Garry finds out that all biochemistry doesn't occur in a test tube.

BOTTOM: Dr. Worster orders a dish of sphingomyelin with a side of arachadonic acid.

MIDDLE ROW
(LEFT TO RIGHT)
Steven Daly
Thomas Davis
Chris Den Ouden

BOTTOM ROW
(LEFT TO RIGHT)
Paul C. Diamond
James DeAngeli
John Deagle
TOP TO BOTTOM:
Howard Doughty
Daniel Dugan
James Edinger
Thomas Edleman

Could Rick be smelling the aerosol that Pat just made?

TOP:
Dave Little inspects petri dish for growth of microorganisms.

BOTTOM:
The spell-bound microbiology class.

ABOVE: Mrs. Newcomb demonstrates sterile transfer of bacteria.

BELOW: Jan waits for someone to ask for help.

"I have seen Dave Little's picture four times on these two pages. Could it be that he was one of the few that were willing to work on the yearbook?"
Who knows what evil lurks in the brains of men? Dr. Dalvi's shadow knows!

Is that the funeral march I hear?

Oh God, don't let my first patient die!
TOP TO BOTTOM:
Stephanie Gangsie
Scott Gantt
Donald Garland
Harvey Giller

Dan Dugan and "friend"

ABOVE:
Ron Kohler prepares one of his fascinating lectures.

BELOW:
Pauline — “Queen of the Hands”

Dr. Connair demonstrates the fine art of ankle and knee tapping.

Dr. Herron displays a chart showing class attendance for his lectures during the quarter.

ABOVE:
Jan Goldberger
Neal Golenberg

Class of 1976
Medical students work hard, but they play hard too.

"The Ice Machine"

Who's driving home tonight Ron?
Intramural Sports

BELOW: As any medicine man playing basketball knows, the best solution to a losing game is a rain-dance.

FROM LEFT TO RIGHT: Harvey Hoffman George Huntress William Illingworth Daniel Ingraham Lou Isaacson

ABOVE: FISHING
Tom Pelz catches a Deagle-fish.

RIGHT: PING PONG
With Karen and Peg on the other side, Marty evens the odds by stepping back.
Dr. Stallings discussing plastic surgery with students.

Dr. Dalvi pointing out important features of the brain in Neuroanatomy.

FROM TOP TO BOTTOM:
John Kazmierski  
Edward Klimek  
Ronald Koehler  
Martin Koenigsberg

SECOND COLUMN:  
Gary Kuhl  
Frank Labaganara  
Jonathan Leslie  
Phillip E. Leveque

Dr. Haynes and Richard Chimielewski talking pathology.

Neil Levin  
Mark Maloney  
Dave Little  
Maxhn McCaw

Marc Loundy  
James McQueen  
Paul MacGregor  
Edward Mishal

Michael Maguire  
Dennis Murphy
Manny asks, "Any word from the Governor yet?"

Dr. Kosuri closely supervises Wayne Terry working on Jim Van Dusen.

Sandford Wolfe et al, recording electrocardiogram.

Keith Pattison
John Perkner
Thomas Pelz
Thomas Pettinger

Dr. Cooper explaining ECG to Stephanie Gangsie and Eugene Ussherghl.
Mitchell Moriber organized a number of class meetings during which students were able to bring up their ideas and complaints. The venture went over big at first but later attendance fell off and the meetings were cancelled.

Dr. Cheng, the father of George Cheng, a student in our class, was kind enough to come all the way from California in order to present a lecture on Acupuncture.
Dr. Currie supervises Wayne's preparation of a dog for the first pharmacology experiment in which drugs having an effect on the autonomic nervous system were demonstrated.

Here he emphasizes the importance of knowing the mechanism of drug actions.

Students are asked to explain what effects should be expected from the drug Dr. Currie is about to inject.
TOP: John Kamierski, Roger Harris, and Garry Teigland study microscopic views of breast tissue in the pathology laboratory.

BOTTOM: The students are already quite familiar with the gross view.

TOP: President Moriber and the other Class of 1976 are already quite familiar with the gross view. BOTTOM: The Class listens and thinks.

TOP: Weitzman directs a statement toward President Moriber. BOTTOM: Jack Gutman makes a final statement as the meeting is concluded.
Anatomy

Our first experience in learning medicine was the study of Human Anatomy. We began the dissection of a human cadaver as soon as class started for us. This is a privilege which is extended only to those professions who train students such that their knowledge and experience will benefit those needing professional health care.

Some students were understandably squemish where the actual handling of a scalpel was concerned, while others were in up to their elbows. Dr. Dalvi and Dr. Slattery as well as some fellow classmates lectured and offered assistance to those of us who asked.

Dave Little points out a structure to Donald Schmit, Bill Jagiello, Dennis Murphy, and Gary Kuhl.

BELOW: Dr. Slattery demonstrates the anatomy of the abdomen to Dave Little, Lou Isaacson and Mitch Moriber.
During the freshman year at COMS, students receive a survey course in physical diagnosis taught by Dr. Rosen. Dr. Rosen repeatedly emphasized the necessity for thoroughness in every physical examination.

Using Kodachrome slides, Dr. Rosen went through the human body, system by system, explaining how to differentiate normal from abnormal physical findings.

With small groups, Dr. Rosen was able to ask probing questions of the students concerning the physical examination.

Here Dr. Rosen says, “Believe me, if you don’t palpate the abdomen thoroughly, you could miss a tumor this big.”
Pre-Clinical
Dave Little

Roger Harris

Dennis Shimp

Garry Teigland

Freshman Year

BOOK Staph
Dave Little
Roger Harris
Dennis Shimp
Garry Teigland

Freshman Year BOOK Staph
ABOVE LEFT: First year Pacemaker staff: Dave Little, Roger Harris, Dennis Shimp, and Gary Tiegland.

ABOVE RIGHT: Walsworth representative Paul Magnin discusses lay-out technique with Harris Neuman.

BELOW LEFT: Third year Pacemaker Staff: Scott Tilleson, Paul Panebianco, Elliot Neufeld, Dave Brauner, and Bob From.


**Pacemaker Staff**

ABOVE LEFT: Dave Brauner - Editor

ABOVE RIGHT: John Wulff

BELOW LEFT: Jim Kantor and Tom McNight

BELOW RIGHT: Pacemaker workroom in use
The 1973-74 academic year was filled with a large number of both new and old council projects.

The Student Council continued to sponsor such traditional events as the Freshman Welcome Dance, Skip Day Picnic, all intramural sports programs, including football, basketball, softball and volleyball, plus a continuance of student representation on various faculty committees.

New to 1973-74 was the implementation and approval of NOSA, the National Osteopathic Student Association, by the student bodies of all seven member schools, thus representing an opportunity for student involvement in a national organization that is both responsive and representative of 100% of all osteopathic medical students. The Senior Smoker provided first and second year students with the personal clinic, community medicine, and hospital experiences of the graduating class.

Thus the COMS Student Council continued to act as a completely viable organization representing students in all areas and at all levels.
Sigma Sigma Phi is a National Osteopathic Honorary Service Fraternity. The College of Osteopathic Medicine and Surgery's division, the Beta Chapter, is one of the more active in the country. Members include second and third year students who have shown an interest in participating in school and community affairs. Membership is selective, being offered only to those who have completed their first year at the college with a satisfactory grade point average.

ABOVE: Elliot Neufeld, Scott Tilleson and Mark Reinertson relaxing after an SSP meeting at Chuck's Italian American Restaurant.

BELOW LEFT: Mark Reinertson filling Doctor Burt Routman's, SSP advisor, tank.
SSP's activities in school and community are as diverse as the interests of its members. We participate in screening clinics for diabetes and hypertension, selling school rings, leading prospective students and other guests on school tours, and sponsoring such events as the Freshman Welcome Picnic, Senior Week, Pacemaker Ball, and finally the production of the COMS annual - Pacemaker.

SSP members have traditionally been those students eager to work both in and out of class for the betterment of their school and their profession.

Mark Reinertson
President Sigma Sigma Phi
1973 - 1974
This section is dedicated to you, the past, present, and future members of the Students' Wives Club of the College of Osteopathic Medicine and Surgery.

Wives' Club has, and continues to be a liaison between husband and school. It is the only organization which brings the student's wife close to the college atmosphere and its activities - a means of showing support and interest in what your husband is doing.

Through Wives' Club it is hoped that a better understanding of the Osteopathic profession will be gained, in addition to a sharing of ideas, enthusiasm, and special talents needed for the educational, charitable, and social functions.

Although all of the objectives or ambitions of the Students' Wives Club cannot possibly be depicted on these pages, it is hoped that these few pictures characterize the camaraderie of several of the active wives.
Declaration of a Student’s Wife

Being the wife of a future member of the medical profession. I solemnly pledge myself to dedicate my life to the service of my husband and my family; I will practice my wifely duties with conscience and dignity.

I will encourage my husband to study diligently.

I will give to my husband and his profession to respect which is their due, and I will keep informed about this profession—acting as a liaison with the public.

I will be careful of my words, actions and deeds since these reflect not only upon myself but also upon my husband and his profession.

I will look after my husband’s health so that, in turn, he will be able to give his first consideration to his patients’ health.

I acknowledge that the secrets confided in my husband must remain with him.

I will learn to maintain the utmost respect for human life and will not harbor prejudices.

I will make a special effort to develop my mind just as my husband will develop his during his medical training, so that we will both grow and develop together.

I will share social, cultural and world items of interest with my husband which study time will prevent him from learning himself.

I make these promises solemnly, willingly, and upon my honor.

— Barbara Leff (Mrs. Donald)

President, 1958-1959

Students’ Wives Auxiliary
The Atlas Club’s house sits high on the rolling, emerald hills of old Fort Des Moines overlooking the sparkling Grand River. The white-pillared mansion has been a familiar landmark to members, non-members, Dr. Celander, horry nurses, the county health dept. and the fire marshal. Although the existence of the house is precariously held in the hands of power and politics, the Club itself has perpetuated young professionalism through fraternity. In addition, Atlas Club functions to provide social festivities, guest lecturers and a relief from the continuous migraine of battles with the books.
Phi Sigma Gamma was formed at the Still College of Osteopathy in Nov. of 1923 with 29 chapter members. Chartered as the Delta chapter, the Socio-fraternity has grown in numbers to include 63 active members in the 1974 school year. PSG members participate in various educational and social events once monthly. Many of the local physicians in the Des Moines area are past members and PSG encourages their continued participation.

(RIGHT) Treas. - Steve Sklar, Active Chapter Delegate - John Clark, Vice-Pres. - Paul Haberer, Pres. - Terry O. Kurtz, Membership Steve Hart, Secretary - Alex Leeds. (TOP LEFT) Dean Senty and PSG's faculty advisor, Dr. Connair, appear in deep concentration following dinner. (ABOVE RT.) Terry Kurtz confers with past president Dave Hoffman. (MIDDLE LT.) Tom Lower and wife are solo dancers while others enjoy after dinner rest. (CENTER) Dennis Shimp, 74-75 president and wife, Jan, pose during dinner. (MIDDLE RT.) With the pace of the music picking up, everyone but Jo Teeter, photographer's wife, heads for the dance floor. (LOWER RT.) Pizza and beer party sponsored by PSG attracted many people. Tom Pelz, Dennis Shimp, and Charles Hughes are shown working in the COMS kitchen preparing pizza for the membership drive party.
Delta Omega

BACK ROW: Vicki Petersen, Audrey Lewenz, Ruth Frahm, Lorraine Stehn, Charlotte Cleavenger, Barbara Vander Wall, Nina Hare, Karen Kantor.

FRONT ROW: Deborah Copperman, Laurie Woll, Margaret Orcutt, Stephanie Gangsei, Rita Shapiro, Mary Nunchuck, Marianne Klemm (V. Pres.). Members NOT PICTURED: Shoko Kubota, Kip Malick, Terrie Wurzbacher (Pres.), Lesley Hansen, Melva Newcomb.

TOP: Melva "Evil Knievel" Newcomb. BOTTOM: Dr. Elizabeth Burrows, Delta Omega advisor and friend.

TOP: Audrey, Debbie, Vicki, Lorraine and Charlotte exchanging ideas at one of the meetings. MIDDLE LEFT: Marianne taking time to work with Dr. Slocum. MIDDLE RIGHT: Dr. Anna Slocum has taken time to teach us more about osteopathy. BOTTOM: Stephanie, Karen, and Lesley at Delta Omega's final meeting with Dr. Genevieve Stoddard.
Congratulations
Graduates 1974

CAMLIN COLOR PHOTOGRAPHY
"Where telling YOUR story in photographs
is OUR business."
PHYSICIAN-FACULTY BOOSTERS

DR. BYRON LAYCOCK

DR. JOHN SCHWARTZ

DR. R. G. HATCHET

DR. NORMAN ROSE

DR. JAMES CATERINE

DR. ROGER SENTRY

DR. ELIZABETH BURROWS

DR. BURTON ROULTMAN

DR. J. R. MCMERNEY
PHYSICIAN-FACULTY BOOSTERS

DR. HENRY KETMAN

DR. JOHN CISNA

NOT PICTURED

DR. DARRELL BROWN
DR. MILTON DAKOVICH
DR. SARAH LEE

DR. EDWARD HERTKO

DR. G. G. STODDARD

DR. ROBERT KREAMER

FACULTY BOOSTERS

MERLE KILMORE, PH.D.
LALITHA KOSURI, PH.D.
JULIAN MELHADO, PH.D.
HARVEY NEWCOMB, PH.D.
DARUNA SAYEED, PH.D.
DUNCAN THOMSON, PH.D.
<table>
<thead>
<tr>
<th>Name</th>
<th>City, State</th>
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<tr>
<td>DR. JULIS ABRAMSOHN</td>
<td>Guthrie Center, Iowa</td>
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<tr>
<td>DR. JOE ANDERSON</td>
<td>Oklahoma City, Oklahoma</td>
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<tr>
<td>DR. JOSEPH B. BAKER</td>
<td>Greenfield, Iowa</td>
</tr>
<tr>
<td>DR. HARRY BÀRIQUIST</td>
<td>Des Moines, Iowa</td>
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<td>DR. JAMES BATES</td>
<td>Des Moines, Iowa</td>
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<td>DR. R. D. BRAINKERD</td>
<td>Lake Mills, Iowa</td>
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<td>DR. H. J. BRAUNSWEGEL</td>
<td>Des Moines, Iowa</td>
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<td>DR. J. P. BROWN</td>
<td>Glendale, California</td>
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<td>DR. GARY CASTLE</td>
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Pacemaker . . . . . and the beat goes on.

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