PACEMAKER '64
The Class of 1964 Presents Its Edition of the PACEMAKER
... A year significant, not only as a first, last, or intermediate part of that span of years referred to as "your medical education" but also because it represents a part of yourself ... our hope is that in browsing through these pages you will be reminded of some of the events and associations which have made this year meaningful ... and we acknowledge that you will have to read "between the lines" to do this; for only in yourself can you know the reality of medicine and C.O.M.S.
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Osteopathy has been built upon the bedrock of the never ending loyalty of the public which it serves and the untiring efforts of the faculty which trains its physicians and surgeons.

Today, as at other numerous times when the profession stands at the crossroads, the class of 1964 thinks especially of a physician and educator who has watched us grow and has guided us, enduring our follies and anxiously watched our struggles to become physicians. For all of these things and many more, we offer thanks and humbly dedicate this book to:

Dr. Glenn E. Bigsby
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TO THE CLASS of 1948:

In these four years we have been together, I hope you have developed the understanding and the incentive to stand for what you believe is right for the profession and the future of this college and to refuse to be swayed from your convictions.

It is my earnest hope that you as alumn will be my inspiration in the molding of the kind of college that will be a credit to the osteopathic profession; that future classes will look to you for guidance as they enter the profession; that as time goes on you will have the desire and feel the need to return for further study in the many postgraduate courses we have available, and that you will grow strong as an osteopathic physician and a leader in the affairs of the community in which you choose to practice.

Miss Ruth Gillette
TO THE GRADUATING CLASS OF 1964:

I trust that our study, our work, and our association has been a rewarding experience.

The pictures and comments within this book will--in the years to come--recall to us the pleasures and friendships made here. Our experiences here become a part of us and a part of the College.

May your memories be pleasant and your services to society most valuable.

[Signature]

OMA K. KEPPEL, J.B. D.D.S. A.B
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Mrs. Nancy Martin, Sec.
Mr. Cecil Looney
Business Manager

Opal Andrew
Bookkeeper

Juanita Gray
Bookkeeper

Gil Sheeder
Accountant
Public Relations

Ann Rimming, Sec.

Mr. Schreiber receives Log Book Award from Pres. McLaughlin.
Health Education

Printing Department
Library

Mrs. Mary Murrow,
Librarian
The Making of a Doctor

Class of 1967
Stuart Willner

Arnold Zapinsky

David Weinstein

Richard Jacks

The Class of '67 will fill these chairs.
The Making of a Doctor II

Class of 1966
Donald Kaplan
Fred N. Katz
Edward J. Kauffman
Joel K. Leib
Fred G. Margolin
Class Secretary
Albert F. Mars, Jr.
Student Council
Chase
NOT PICTURED
Roy E. Fredericks
Richard I. Romer
Louis B. Walk

Robert S. Zimmerman
"Harrison says . . . ."

It won't work, but let's try it nevertheless.

It's probably dead.

Ben Kohl, money, always money.
The Making of a Doctor

Class of 1965
Russel S. Seeman Jr.

Richard H. Sherman

Melvin Sherman

Joseph

James F. Sosnowski
Class President

Hugo K. Stierholz
Class Vice President

Ronald Stewart

Alan
Special Students

Robert R. Brown
Joseph W. Chatfield

Harlen Hunter
Ben A. Raines
The Making of a Doctor IV

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Dearborn, Michigan
Phi Sigma Gamma
Phi Sigma Alpha
RICHARD J. ZIMMER
B.S., University of Michigan
Algonac, Michigan
Iota Tau Sigma
Phi Sigma Alpha
Obstacle #11

My back hurts!

I agree with the Doctor!

'Nuf said!

Gee, fellows!
In Memory of
Randall H. Willis

December 6, 1911 — March 27, 1962

In September of 1960 a group of 72 men met for the first time. Among this group was an outstanding personality whose lifelong ambition was to become a doctor. 48 years old, Randy entered the College of Osteopathic Medicine and Surgery to begin his medical training after working as chemist for International Harvester Company. Prior to this, Randy had a tended college, taught school, completed his pre-medical studies and served in the U.S. Army Medical Corps.

Randy loved people and soon became known and respected by the entire class not only as a conscientious classmate with few prejudices, but also as a trusted friend. He served on the Student Council and took an active part in the affairs of Iota Tau Sigma Fraternity. It is with these thoughts in mind that the class of 1964 will remember Randy and feel that he would have been a dedicated osteopathic physician.
Basic Sciences

Biochemistry
Ecology
Embryology
Gross Anatomy
Histology
Microbiology
Neuroanatomy
Pathology
Pharmacology
Physiology
Department of
Anatomy

Stanley D. Miroiyannis, Ph.D., Chairman
Embryology
Dr. Ollum and R. Brown
Dr. Rex Ollum, Instructor

Neuroanatomy
Brain Dissection
Dr. Minoyannis and Ben Raines
Department of Ecology

Mark Goldie, Ph.D., Chairman
Department of Bacteriology

Katherine Chisholm, B.A.
It's there somewhere!

You flunked!

Bugs, bugs, everywhere
Department of Biochemistry

David R. Celander, Ph.D., Chairman
Department of Physiology

Wilford L. Nusser, Ph.D., Chairman
Department of Pathology

Lloyd W. Fiske, D.O., Chairman
This one will be on the test

Use a small needle

Dr. John Seibert lectures
Clinic
Years

Anesthesiology
Dermatology
EENT
Gynecology
Internal Medicine
Laboratory
Medical Illustration
Medical Jurisprudence
Obstetrics
Orthopedics
Outpatient
Pediatrics
Physical Medicine
Psychiatry
Radiology
Surgery
Urology
Department of Anesthesiology

Joseph E. Prior, D.O., Chairman
Department of Medical Jurisprudence

D. E. Hannan, LLB., Chairman
Department of Dermatology

Harry B. Elmet, D.O., Chairman
Department of Ob.-Gyn.

Elizabeth A. Burrows, D.O., Chairman
The final coming up!!!

Dr. L. Sparks

What did you say, Mitchell???

It must have been deep

Mrs. E. Wyant
How could it have been worse?

In Florien...

Did SHE mean us???

After O.B. II

"The position of the uterus..." He slept!!!

But SHE
But she never said it in class

What did she mean short answer

She's my Doc. too

I pass

Come now, Doctor
Department of
E.E.N.T.

Verne J. Wilson, D.O., Chairman
Dr. H. J. McCoy

My recommendations are . . .

Dr. F. Mayer, Asst Prof. E.E.N.T.

So he had RHINITIS
Department of Orthopedics

J. P. Schwartz, Jr., D.O., Chairman
Dr. Schwartz explains diathermy

Bryant's Traction starts here!

We were always QUIET
Department of Urology

B. E. Wilson, D.O.
E. F. Leiningher, D.O.
Use a #18 French

I said 50 true and false

Dad says Dermatology, but Urology pays better

Good advice

50 T and F: He wasn't kidding!!
Department of Surgery

William T. Barrows, D.O., Chairman
Dr. R. K. Woods talks on disaster medicine

Sure, I said Pro-Surgical Lab work

Dr. W. Barrows

Dr. A. W. Dennis
Department of Physical Medicine

Byron E. Laycock, D.O., Chairman
Dr. H. Magoun

"Der Chief"

Now, let's see

It won't hurt

Stan, the Man

Dr. Paul Isaacson
Pretty good, wasn't it?

Easy, now!

How it's done

Dr. G. Elliot

Dr. R. Rogers

Dr. J. W. Hatchett
Department of Psychiatry

Erle W. Fitz, D.O., Chairman
G. Born with Mr. Charles Palmezar

Sylvia Van Tassel

Hilda Savaadin

Armstrong and Orr at Still Hillcrest, Macon, Mo.
Department of Medicine

Stuart F. Harkness, D.O., Chairman
Department of Radiology

Henry J. Ketman, D.O., Chairman
Department of Pediatrics

Jay W. Adams, D. O., Chairman
Department of Med. Illustration

E. Lynn Baldwin, Chairman
Laboratory

"What do you mean, stat urinalysis?"
This is lab equipment?

Frank Smythe doing tissue sections

Tom Royer
Outpatient Duty

Yes, I have a student Doctor

Tools of the "trade"

Outpatient? Don't be funny, Charlie

Sign in—Sign out

The "Boss"
What do you mean, cover outpatient at 107

What was that?

If you have trouble, "Call Me!"

Call me for emergencies only

That 5 to 10 shift
Research '63-'64
Dr. Bunce's research is broadly concerned with blood vessels—their anatomy and physiology, and the diseases which affect them.

By means of a special instrument (the Bunce double hemostat) arteries and veins distended normally with blood may be removed from the living body. It is thus possible for the first time to investigate the changes which occur in the arterial wall as a result of such conditions as high blood pressure, arteriosclerosis, or aneurysms, for example, and to discover their effect on blood flow in the living individual. Another phase of the research deals with a definition of the changes which occur in arteries due to aging.

A second investigation involves studies of means to prevent cerebral stroke. Methods are being sought which will increase the development of the collateral circulation to the brain when the main blood supply has been diminished due to accident or disease. By the use of hypothermia, the sensitive nervous tissue in the brain can be cooled to decrease its oxygen requirements while blood reaches the brain through new collateral pathways by-passing the diseased vessels. By the time the brain has returned to body temperature, it will have regained a normal blood supply and the impending stroke may be prevented.
Graduate School
Director

Donald F. M. Buncé, II, Ph.D., F.A.C.A.

Dr. Buncé is also Research Professor of Physiology and Chairman of the Research Council at C.O.M.S. Dr. Buncé has been awarded the Rowell A. Billups Memorial Research Award for, "Effect of Hypothermia on Cerebrovascular insufficiency," Société Française d'Angiologie et Histopathologie. He is a member of the Editorial Boards ACTA PHYSIOLOGICA and ANGEIOLOGIE (Paris) and Sigma Xi. Formerly Buncé was the Executive Secretary, Southern Society of Anatomists and has been an invited speaker before seven International medical and research Congresses in Europe.

Dr. Buncé is a Fellow in: American College of Angiology, American Association for the Advancement of Science and Iowa Academy of Science.

The College of Osteopathic Medicine and Surgery has established a new graduate school to train needed teachers and researchers for medical college faculties. Dr. Buncé emphasizes that this need will grow because of the five to ten new medical colleges planned for the next ten years plus expansion plans of the existing schools.

Because of a national shortage of teachers of basic medical sciences, the federal government through the National Heart Institute of the U.S. Health, Education and Welfare Department has given the college a $72,000 grant to establish and support the graduate school on a small basis for two years. There will be two students a year for the first three years with plans to expand to 35 students three or four years later when the college moves to the new and enlarged campus on the old Fort Des Moines Army Post Grounds.

In the beginning, students will be medical school graduates, either doctors of osteopathy or doctors of medicine, later some students with bachelors' degrees in biological sciences will be admitted. The graduate school will grant master of science degrees, this will take one year of study and research for those with doctors' degrees and two years for those with bachelor degrees. Plans are being made to send graduates to other schools for their Ph.D. degree in anatomy, physiology or biochemistry.

Under the federal grant, each student will receive a living allowance of $5,000 a year, plus $500 for each dependent. Grant funds will also pay the student's tuition here and at the other colleges involved. As director of the graduate school, Dr. Buncé will furnish other details to interested applicants.
Anatomy

This department's continuous research was to determine the effects of the Nissl granules of the anterior horn cells of the rabbit spinal cords by using an extreme modification of Nicholson's technique. He experimented on the hypoglossal nerve and nucleus by ligation and tearing the axon. In this work, the department attempted to simulate the effects of Nicholson's ligation by substituting muscular spasm around the spinal nerves.

Histological and cytological changes were noted in the Nissl granules and several hypotheses were presented to demonstrate the relationships of structural changes of these tigroid bodies in the neurons of the anterior horn cell of the spinal cords of rabbits.

Since this is a continuous and comparative project, rats were used last year while rabbits were used this year. Tentative plans are to continue the project by using Rhesus monkeys and possibly later use apes.
Dr. Albert Broseghini is continuing research that began under direction of Dr. William F. Hewitt. This research is to shed some light upon whether the actual site of erythropoietin production is the kidney, and is conducted with the thought that while erythropoietin is produced in the kidney, it is inactivated in the liver.

Using dogs, the procedure is to basically divert renal blood flow from the general into the portal venous system. This is done by way of renal vessel (veins) anastomosis. Hemorrhage of these animals seem to show decreased erythropoietic response in comparison to normal animals.
Biochemistry

Dr. Celander's research efforts are currently directed along two major lines—(1) studies of in vivo incorporation of radioselenium (Se-75) into proteins and use of such proteins as tracers substances: and (2) in vivo and in vitro studies of the fibrinolytic enzyme system. Dr. Celander has been engaged in research on the fibrinolytic enzyme system for well over ten years and has been involved in the purification of many of its components as well as in development of methods for their assay. He has devoted particular attention in this area to the purification of urokinase, a urinary activator of plasma profibrinolysin, which is of major importance in several of the commercially available fibrinolysin preparations used therapeutically.

His interest in obtaining radioselenium-labelled proteins originally stemmed from his desire to use such proteins as tools in studies of the fibrinolytic enzyme system. However, the firmness with which the radioselenium is incorporated into all the body proteins and the relatively long half-life of radioselenium have considerably widened the areas of applicability of such proteins.
Dr. Goldie's research is concerned with the mode of action through which various chemical and physical agents bring about abnormalities resembling those defects resulting from the action of mutant genes. These modifications of development are not heritable but nevertheless, copy mutant phenotypes (hence are called Phenocopies).

Since the developing system (limb or tail bud), which is sensitive, is the result of the actions of many genes, the identification of the mechanisms through which these agents affect physiological processes is a laborious task. A number of concurrent processes probably are being affected. The genetic variability of developing embryos also complicates interpretation of the action of these agents. However, since the gross end result is the same and the day to day pattern of events is virtually the same, no matter whether or not a mutant gene or chemical substance is acting, partial understanding the mode of action of mutant genes and by extension the mode of action of normal genes is thus made possible.

The research is secondarily concerned with the interaction of component tissues within the embryonic organ being studied (the tailbud of the chick embryo). The method of investigating this problem is quite different from the methods employed in the study of phenocopies.
Junior Research Assistants

This eight week program, made possible by a grant from the National Science Foundation, is designed to introduce outstanding high school science students to medical research. Dr. Broseghini has the students assist researchers in biochemistry, physiology, embryology and medicine.

The students also attended seminars which covered the use of literature in research, design of experiments, judgment of evidence and handling of experimental animals.
Fraternities
Inter-Fraternity Council

- Lew Fraterneli
  President

- Robert Brown
  Secretary-Treasurer

- Eli Perencvich

- Alexander Romashko

- Mel Sherman
National Honorary Scholastic Fraternity
Honorary Fraternity
SSP Projects

Pacemaker Production
Pacemaker Ball
Student Loans
Guided Tours
Christmas Seals
Christmas Party
Student Council

Pres. McLaughlin presents Log award

R. Sims, Pres.

Back row, l to r: Robins, Frye, Marz, Miller, Dr. Celander, Strickland, Hill, Verona, Lynn; Front row, l to r: Balog, Hood, Podesky, Sims, Stierholz, Kronk, Nickel

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Convocations

Dr. Agnew receives award from Pres. McLaughlin

Dean Nifongegger presides

Lou Ricci receives award

Dr. John Selbert presents book awards from C. V. Mosby Co.
Sports
Skip Day
Mrs. Jolee Fraterelli

PACEMAKER QUEEN
1963-1964
Pacemaker Ball

AJ Driscoll, Chairman
Gone are the days?

Those crazy steppers

The Drawing!

The Combo!!
"CUPID'S CAPER"
STUDENTS' WIVES CLUB
C. O. M. S.
Cordially invites you to attend their annual dance
on Saturday, the second day of February
at nine o'clock in the evening
Knights of Columbus Ballroom
twenty-fourth and Woodland Streets
Des Moines, Iowa
Donation: $2.50 per couple - Door Prizes - Semi-formal
Music furnished by the Jimmie Dale Orchestra
Proceeds to Endowment Fund
You what?

That does it.

We will need the hangers!

Together at Indianapolis, guests of Eli Lilly and Co.
Future D.O.'s
STAFF —

Herb Gearhart
Editor

Leith Mitchell
Associate Editor
Photography
PACEMAKER '63-'64

Ben Kohl
Business and Advertising Manager

Ron Ganelli
Layout Editor
Additional Staff

Dick Lane
Photography

Dewey Stephens
Photography

Lionel Ketcham
Saul Bresalier
Business Staff

Not Shown:
Bert Eisenberg
Steve Isaacson
Richard Sherman
Bill Utter
The Making of a Yearbook

(Parts I, II, III, IV, V, VI, ... etc.)

... Instead of this.
C.O.M.S. Publications

Pres. McLaughlin
Editor of the Newsletter

Lynn Baldwin
Medical Illustration
The Logbook

Richard Schreiber
Director, Public Relations
The Logbook

Lionel Getien
Editor of The Pulse

Alvira Lunsford
Editor of What's Doing
In the above picture, Mr. Ted Flynn, at a convocation, showed the students the drawing of the proposed new building program. The photo to the right shows Dr. LeRoque at the formal opening of the new branch clinic at the Fort Des Moines tract of ground shown below. The end sheets of this annual show in color a tentative drawing of the proposed new building program.
Maintenance

Not Pictured
George Bible
Sadie Kenworthy
Dear Reader —

A yearbook is composed of more than pictures and memories of events. It must be paid for. To a great extent, this cost is met through advertising. The organizations, businesses and hospitals that have purchased space in the yearbook have done so to help you—both in the sense of allowing us to give you a better yearbook, and in showing you their services and products, in hope you may find them useful.

Please take the time to look at the ads and, if the opportunity arises, patronize the people who bought them.

And tell them you saw it in the Pacemaker.

Benjamin Kohl
Business Manager
1963-64
This is a capsule...

...and it looks deceptively simple. Certainly not as complex as an x-ray machine, a fully equipped operating room, or a modern pharmaceutical analysis laboratory. But appearances can be deceiving. Into this capsule went countless hours of research, the clinical investigation of thousands of patients by scores of physicians and—finally—painstaking manufacturing controls. And—with the help of this capsule—physicians are able to provide more effective care for their patients.

Smith Kline & French Laboratories is dedicated to the discovery and manufacture of these seemingly simple medicines... prescription drugs which have revolutionized the physician's treatment of his patients.

SMITH KLINE & FRENCH LABORATORIES
HERE'S WHY MORE AND MORE OSTEOPATHS ARE USING

THE GENUINE Contour® CHAIR LOUNGE

FOR

Maximum Rest and Relaxation FROM SITTING

Contour® IS CUSTOM-FITTED, FIGURE-SIZED TO PROVIDE HEAD-TO-FOOT BODY SUPPORT AND WEIGHT DISTRIBUTION—AT ANY POSITION

SCIENTIFIC FINDINGS show conclusively that in a Contour® chair a single part of the body absorbs No More Than 18.1% of Body Weight

31.4% of body weight supported by hip area
2.6% of body weight supported by knee area
11.0% of body weight supported by seat area
12.6% of body weight supported by back area
3.5% of body weight supported by head area
14.6% of body weight supported by foot area
9.0% of body weight supported by neck area
16.8% of body weight supported by elbow area
18.1% of body weight supported by wrist area
2.4% of body weight supported by hand area
9.4% of body weight supported by knee area

32.8% of body weight supported by hip area
2.2% of body weight supported by knee area
10.1% of body weight supported by seat area
14.3% of body weight supported by back area
4.5% of body weight supported by head area
15.8% of body weight supported by foot area
17.0% of body weight supported by neck area
18.1% of body weight supported by elbow area
7.2% of body weight supported by wrist area
2.4% of body weight supported by hand area

40.7% of body weight supported by hip area
4.3% of body weight supported by knee area
2.7% of body weight supported by seat area
13.1% of body weight supported by back area
12.9% of body weight supported by head area
15.6% of body weight supported by foot area
11.5% of body weight supported by neck area
11.8% of body weight supported by elbow area
16.4% of body weight supported by wrist area
24.3% of body weight supported by hand area

23.8% of body weight supported by hip area
2.5% of body weight supported by knee area
11.4% of body weight supported by seat area
12.2% of body weight supported by back area
11.2% of body weight supported by head area
17.1% of body weight supported by foot area
12.1% of body weight supported by neck area
11.7% of body weight supported by elbow area
10.1% of body weight supported by wrist area
6.2% of body weight supported by hand area

Compare Contour's 18.1% with 34.1% & 35.4% for a "TILT-BACK" CHAIR

REST AND RELAXATION from sitting depend on the comfort and body support provided. Contour's body conforming design naturally supports the body head-to-foot, lightens the load on lower spine and hip areas. Shown are results of scientific tests made on two types of chairs and a Contour®.

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Notice how little actual support is provided at the lumbo-dorsal region by cushioning which only provides a feeling of support.

54.9% of body weight supported by hip area
10.1% of body weight supported by knee area
40.4% of body weight supported by seat area
21.3% of body weight supported by back area
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8.6% of body weight supported by neck area

50.6% of body weight supported by hip area
27.5% of body weight supported by knee area
12.5% of body weight supported by seat area
12.9% of body weight supported by back area
9.5% of body weight supported by head area
3.9% of body weight supported by neck area
15.2% of body weight supported by wrist area

Main weight-bearing point of the body is forced forward by extremely soft upholstery at lower back. Also, because much of the weight is absorbed by feet on the floor, only 49.6% of body weight was recovered in this measurement.

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Now that you, the readers, have perused through these pages, we, the staff, hope that you have indeed read "between the lines," for, as stated in the foreword, only in yourself can you know the reality of medicine and your alma mater.

Perhaps in later years, these pages will remind you of our common problems and we humbly hope, solicit your support for their solution.

The Staff