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### University of Montana Summer Commencement Program, 1947

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#### Recommended Citation

Montana State University (Missoula, Mont.). Office of the Registrar, "University of Montana Summer Commencement Program, 1947" (1947). *University of Montana Commencement Programs, 1898-2020*. 122.

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1097a.ms - Commencement mss -  
Summer 1947  
ARCHIVES

Montana State University  
Missoula

COMMENCEMENT EXERCISES  
1947 SUMMER SESSION



THE STUDENT UNION

THURSDAY EVENING  
AUGUST THE TWENTY-FIRST  
NINETEEN HUNDRED AND FORTY-SEVEN

## ORDER OF EXERCISES

ORGAN PRELUDE    Variations on Themes by Bach    *Liszt-Bonnet*  
                    Largo in E from Concerto Grosso No. 12    *Handel*  
                    Mrs. DeLoss Smith

PROCESSIONAL    War March of the Priests from "Athalia"    *Mendelssohn*  
                    Mrs. DeLoss Smith

INVOCATION    The Reverend Father Bruce Plummer

MUSIC    Suite from the Dramatic Music of Henry Purcell    *Barbirolli*  
                    The University String Orchestra  
                    Eugene Andrie, Conductor

ADDRESS    President James Allen McCain

SOLO    A Spirit Flower    *Campbell-Tipton*  
                    Floyd Chapman, Baritone  
                    Jeanne Ballentine, Accompanist

### CONFERRING OF DEGREES

Presentation of Candidates  
The Vice President and  
The Dean of the Graduate School

Conferring of Degrees  
The President

### BENEDICTION

The Reverend Gordon V. Tollefson

RECESSIONAL    Allegro Pomposo    *Galbraith*  
                    Mrs. DeLoss Smith

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The audience is requested to remain standing while the procession passes.

# CANDIDATES FOR DEGREES

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## THE DEGREE OF BACHELOR OF ARTS

The candidates will be presented by RICHARD H. JESSE, Vice-President.

### BIOLOGY

EVA ELIZABETH LAPINE .....Watkins

### ECONOMICS AND SOCIOLOGY

LOIS VIRGINIA BENSON .....Hamilton

JOHN LINCOLN CUMMING .....Glasgow

HELEN LOUISE HEWETT .....Great Falls

CHARLES RICHARD PEDERSEN .....Havre

### ENGLISH

MARY ELLEN FIFER .....Shelby

FAITH ELLEANOR NELSON .....Alberton

WILLIAM J. PATTISON .....Ryegate

### HEALTH AND PHYSICAL EDUCATION

ROBERT M. OSWALD .....Missoula

JEAN GLENN WALBRIDGE .....Missoula

### HISTORY AND POLITICAL SCIENCE

THOMAS DANIEL BYRNE .....Anaconda

DONALD GORDON LEITCH .....Missoula  
With honors.

S. ELNA SWANSON .....Plentywood  
With honors.

JOHN THOMAS VANCE .....Chevy Chase, Md.

### HOME ECONOMICS

MARY LOUISE ROSS PFOHL .....Deer Lodge  
With honors.

MARY LOU RASMUSSEN .....Missoula  
With honors.

### MATHEMATICS

JOHN HARDESTY JONES .....Helena

ROBERT RICHARD WILLSON .....Missoula

### PSYCHOLOGY AND PHILOSOPHY

PAULINE FREDERICK .....Billings

### SPANISH

ROBERT JOHN TABARACCI .....Black Eagle

# CANDIDATES FOR DEGREES

## Professional Degrees

The candidates will be presented by RICHARD H. JESSE, Vice President.

### THE DEGREE OF BACHELOR OF ARTS IN BUSINESS ADMINISTRATION

WILLIAM R. ANDERSON .....	Fort Benton
JOHN RUSSELL CALFEE .....	Frazier
JOHN L. DELANO .....	Billings
THOMAS GOLDEN EIGEMAN .....	Missoula
JOSEPH G. GOTTFRIED .....	Sunburst
LOUIS HARBRECHT, JR. ....	St. Albans, N. Y.
ROLAND CHILTON HOLT .....	Broadus
EARL DONALD LOVICK .....	Libby
AUSTIN LUNDGREN .....	Colville, Wash.
BROOKS THOMPSON MCCLINTOCK .....	Chinook
LYLE KINCAID MILLER .....	Fort Benton
LYLE D. MUCHOW .....	Missoula
CARL CHANDLER PAYNE .....	Billings
REEVE PAXSON .....	Somerville, Ohio
ROBERT E. PETERSON .....	Billings
DOMINICK PAUL SQUILLACE .....	Missoula
W. DOUGLAS WALLIN .....	Rosebud

### THE DEGREE OF BACHELOR OF ARTS IN EDUCATION

DAVID THOMAS ANDERSON .....	Missoula
KATHARINE E. BROCKMAN .....	Livingston
HAZEL EGAN FIELD .....	Missoula
ROLAND FLYNN .....	Fairview
DONALD A. FOX .....	Park City
HELEN GRILLEY .....	Bigfork
ANDREW HARRISON GRUBBS .....	Scobey
VIRGINIA MCCLEARY CHENEY .....	Polson
MAURICE J. HICKEY .....	Moore
ELLEN M. SAUER HENSRUD .....	Wolf Point
HOLLIE GENEVIEVE HOOVER .....	Drummond
JOHN REED LOVEFACE .....	Wallace, Idaho
DONALD J. MAMMEN .....	Billings
GRETCHEN HILTON UTTERBACK .....	Marsh
MAUD S. VOLK .....	Missoula
With honors.	

### THE DEGREE OF BACHELOR OF ARTS IN JOURNALISM

MARION EVELYN BADGLEY .....	Missoula
GERALD KENNETH CASTILE .....	Galena, Kansas
MELVIN A. HEDINE .....	Missoula
NORMA LEE JELLISON .....	Hobson
HERBERT H. JILLSON .....	Missoula
DAVID C. MARTIN .....	Missoula
(Also major in History and Political Science with honors.)	
MARJORIE ANNE MITCHELL .....	St. Ignatius
CLYDE C. REICHELT .....	Big Sandy

# CANDIDATES FOR DEGREES

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## THE DEGREE OF BACHELOR OF LAWS

WILLIAM G. MOUAT ..... Myers

## THE DEGREE OF BACHELOR OF MUSIC

PATRICIA ANN ANDERSON ..... Fort Benton  
WARD R. SMITH ..... Missoula

## THE DEGREE OF BACHELOR OF SCIENCE IN NURSING EDUCATION

LILLIAN MARY LACROIX ..... Missoula

## The Graduate School

The candidates will be presented by WESLEY P. CLARK, Dean of  
the Graduate School.

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## THE DEGREE OF MASTER OF EDUCATION

MARK PEEBLES ANDERSON ..... Galesburg, Ill.  
A.B., Lawrence College, Appleton, Wisconsin, 1923.  
I. MILLICENT BERGER ..... Great Falls  
B.A., Montana State University, 1927.  
DONALD R. BOSLAUGH ..... Eureka  
A.B., John Fletcher College, University Park, Iowa, 1930.  
JOHN D. BLAIR ..... Richey  
B.S., State Teachers College, Moorhead, Minnesota, 1939.  
CLIFFORD LYMAN BURNETT ..... Billings  
B.S., Billings Polytechnic Institute, 1944.  
JOHN TILFORD CORNN ..... Conrad  
A.B., in Education, Berea College, Kentucky, 1929.  
NONA GRACE ELLIS ..... Ladner, S. Dakota  
B.A., Colorado State College of Education, Greeley, 1937.  
MARY MCKENZIE FLANAGAN ..... Lewistown  
B.A., College of St. Teresa, Winona, Minnesota, 1923.  
ELSIE L. FORCUM ..... Valler  
B.A., Montana State University, 1927.  
HENRY W. KNAPP ..... Bigfork  
B.A. in Education, State Teachers College, Valley City, N. Dakota, 1935.  
EUGENE KARST KOPRIVA ..... Bowbells, N. Dakota  
B.A. in Education, State Teachers College, Minot, N. Dakota, 1935.  
L. EMMETT H. MACKAY ..... White Sulphur Springs  
B.A., Montana State University, 1939.  
INA SEELEY OLSON ..... Miles City  
B.A., University of South Dakota, 1916.  
TRUITT B. SPANGLER ..... Simms  
B.S. in Applied Science, Montana State College, 1936.  
VERNA LAURINE WICKHAM ..... Minot, North Dakota  
B.A. in Education, State Teachers College, Minot, N. Dak., 1935.  
PAUL RICHTER WYLIE ..... White Sulphur Springs  
B.S., Iowa State College, Ames, Iowa, 1923.



# CANDIDATES FOR DEGREES

## THE DEGREE OF MASTER OF SCIENCE IN PHARMACY

- GLENN H. HAMOR ..... Missoula  
 B.S. in Pharmacy, Montana State University, 1941.  
 Thesis: *A Phytochemical Study of Montana-grown Pyrethrum Flowers*

## THE DEGREE OF MASTER OF ARTS

### ECONOMICS AND SOCIOLOGY

- JAMES J. VANCE ..... Billings  
 B.S., Winona State Teachers College, Minnesota, 1942.  
 Thesis: *Economics and Sociology in the High School of Montana*

### EDUCATION

- CHARLES L. FRANK ..... Laurel  
 B.A. in Education, Montana State University, 1946.  
 Thesis: *A Survey of the Use of Projected Visual Aids in the Public Schools of Montana*

- CLIFFORD HARALD HANSON ..... Billings  
 B.S., Billings Polytechnic Institute, 1946.  
 Thesis: *An Analysis of Ninth Year Social Studies in Montana Secondary Schools, 1946-47*

### ENGLISH

- IVAN EDWARD AHLGREN ..... Missoula  
 B.A., Montana State University, 1942.  
 Thesis: *A Study of John Galsworthy's Social Criticisms*

- WILLIAM RUSSELL SLAGER ..... Butte  
 B.S., University of Minnesota, 1946.  
 Thesis: *Bernard Shaw's Attitude Toward Certain Social Institutions*

- FREDERIC H. ZOOK ..... Hastings, Nebraska  
 B.A., Hastings College, 1941.  
 Thesis: *John Marston and the Decline of the Elizabethan Tragedy*

### HEALTH AND PHYSICAL EDUCATION

- HENRY E. RYBUS ..... Ldgerwood, North Dakota  
 B.A., State Teachers College, Valley City, N. Dakota, 1940.  
 Thesis: *An Appraisal of Organized Community Recreation in Western Montana.*

### HISTORY AND POLITICAL SCIENCE

- SARAH MCNELIS ..... Butte  
 B.A., St. Mary's College, Leavenworth, Kansas, 1933.  
 Thesis: *The Life of F. Augustus Heinze*

### PHYSICS

- MARK JOHN JAKOBSON ..... Carlyle  
 B.A., Montana State University, 1944.  
 Thesis: *Excitation of the Lyman Lines in Long Discharge Tubes*

### PSYCHOLOGY

- FRANCES CAROL HAYNES ..... Hamilton  
 B.A., Montana State University, 1940.  
 Thesis: *A Comparison of Adjustment Ratings on the Rorschach and Thematic Apperception Test*

### ZOOLOGY

- PHIL S. SMITH ..... Joliet  
 B.A., Montana State University, 1936.  
 Thesis: *On the Reproductive Cycle of the Male Columbian Ground Squirrel, (Citellus Columbianus)*

# STANDARD METHOD

STANDARD METHOD FOR THE DETERMINATION OF THE CONTENT OF SOLIDS IN LIQUIDS

1. Weigh a known volume of the liquid in a tared container.

2. Evaporate the liquid to dryness in a tared container.

3. Weigh the residue and calculate the percentage of solids.



4. The percentage of solids is calculated as follows:

Percentage of Solids =  $\frac{\text{Weight of Residue}}{\text{Weight of Liquid}} \times 100$

5. This method is applicable to all liquids that can be evaporated to dryness.

6. The results of this test should be reported as follows:

Percentage of Solids = \_\_\_\_\_

7. This method is a standard method for the determination of the content of solids in liquids.