

**Outline of the lectures and demonstrations of William James Macneven, M.D : as professor of chemistry and materia medica.**

**Contributors**

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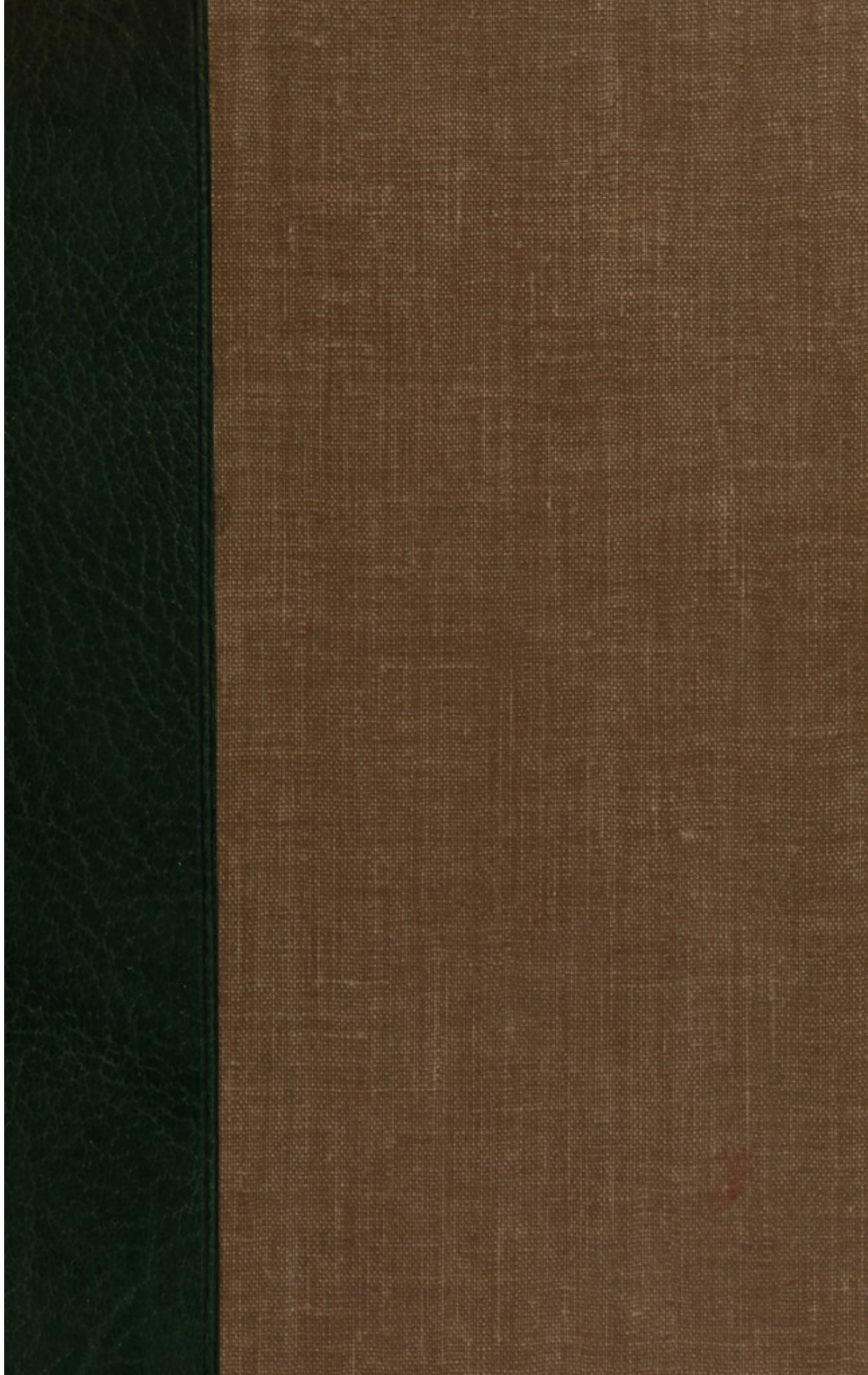
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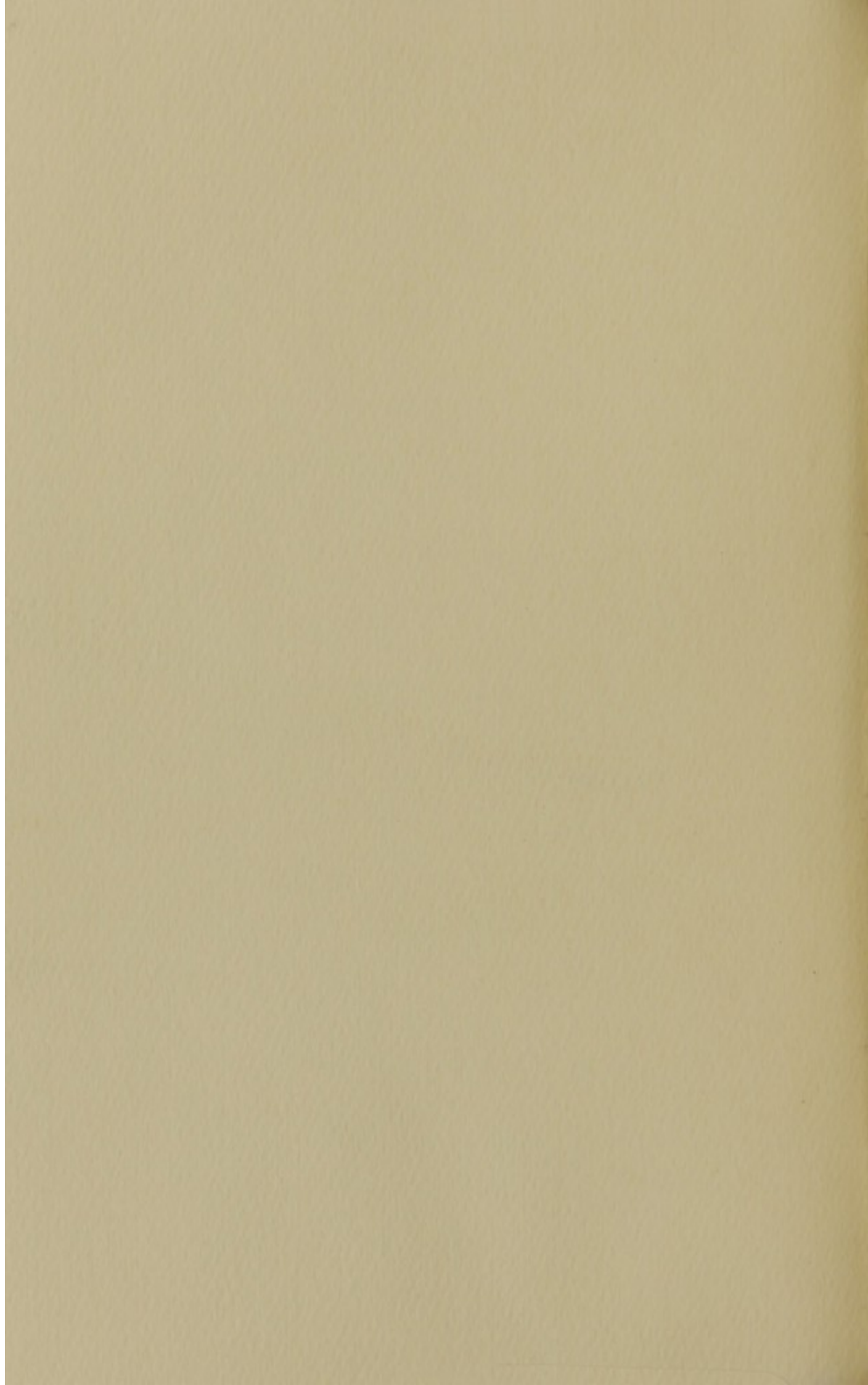
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UNIVERSITY OF THE STATE OF NEW-YORK.

COLLEGE OF PHYSICIANS AND SURGEONS.

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**O U T L I N E**

OF THE

**LECTURES AND DEMONSTRATIONS**

OF

**WILLIAM JAMES MACNEVEN, M. D.**

AS

**PROFESSOR OF CHEMISTRY, AND MATERIA MEDICA.**

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*NEW-YORK:*

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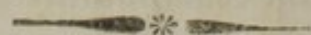
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# CHEMISTRY.



## DIVISION I.

*Of the Powers and Properties of Matter, and the general Laws of Chemical Changes.*

SECT. 1. Attraction—gravitation—cohesion—chrys-tallization—chemical affinity—analysis—synthesis—laws of combination and decomposition.

SECT. 2. Caloric—effects in producing the phenomena of heat—in producing chemical changes—absorbed—evolved in producing chemical changes—nature of caloric.

SECT. 3. Light—effects in producing the phenomena of vision—in producing chemical changes.

SECT. 4. Electricity—galvanism—their relation to chemical changes.

## DIVISION II.

*Of Empyreal undecomposed Substances.*

SECT. 1. Substances that support combustion—oxygen gas—chlorine—iodine.

SECT. 2. Inflammable and acidifiable substances—hydrogen—nitrogen.

SECT. 3. The atmosphere. 1. Physical properties—weight—compressibility—elasticity—specific gravity of air and other gases. 2. Chemical properties of the air—analysis—history and use—combustion—atomic theory—relative weight of the atoms of gaseous substances—law of definite proportion.



### DIVISION III.

#### *Of Concrete undecomposed Substances.*

SECT. 1. Sulphur—phosphorus—carbon—boron—jode—further application of the atomic theory.

SECT. 2. Metals and their multifarious combinations—metalloids—oxides—alkalis—acids—salts—analysis and assaying of ores—continued application of the atomic theory—scale of chemical equivalents.

SECT. 3. Pharmaceutic chemistry—and the processes of the pharmacopæiæ compared with those of the wholesale manufacturer.

### DIVISION IV.

#### *Vegetable Chemistry.*

SECT. 1. Chemical physiology of vegetables.

SECT. 2. Modes of analysis—ultimate and proximate principles of vegetables.

SECT. 3. Fermentation and character of its products.

### DIVISION V.

#### *Animal Chemistry.*

SECT. 1. Composition and properties of the solids and fluids in health and in disease.

SECT. 2. Chemistry of the animal functions.

SECT. 3. Application of chemical principles to the treatment of diseases.

### DIVISION VI.

#### *Geological Chemistry.*

SECT. 1. Application of chemistry to agriculture—formation of soils—their analysis—principles of agricultural improvement.

SECT. 2. Mineral waters, methods of ascertaining their contents by tests and analysis.

# MATERIA MEDICA.

GENERAL CONSIDERATIONS ON THE NATURE OF REMEDIES, THEIR MODE OF OPERATION, AND THE AFFINITY OF VARIOUS SUBSTANCES TO THE SEVERAL SYSTEMS OF THE ANIMAL ECONOMY, MODIFICATION OF REMEDIES BY THE VITAL PRINCIPLE, BY THE CHEMICAL AFFINITIES OF THE ANIMAL FLUIDS AND FIBRES.

## DIVISION I.

### *Remedies of the Chylopoietic System.*

SECT. 1. Tonics—1. vegetable—bitter—astrigent—aromatic—stimulant. 2. Mineral—metallic oxides—salts.

SECT. 2. 1. Emetics—2. purgatives—3. anthelmintics—4. antacids.

## DIVISION II.

### *Remedies of the Uropoietic System.*

SECT. 1. 1. Diuretics.

SECT. 2. 2. Lithontrypics.

## DIVISION III.

### *Remedies of the Cutaneous System.*

SECT. 1. As an exhalant system.—1. Diaphoretics.—2. Expectorants.

SECT. 2. As an absorbent system.—1. Baths.—2. Unctions.

SECT. 3. As a sentient system.—1. Rubifacients.—2. Epispastics. 3. Electricity.



## DIVISION IV.

*Remedies of the Nervous System.*

SECT. 1. General remedies—narcotics—antispasmodics.

SECT. 2. Particular remedies of the organs of sense—of sight—hearing—taste—smell—touch.

## DIVISION V.

*Remedies of the Sexual System.*

SECT. 1. In satyriasis—priapismus—impotentia—gonorrhæa—syphilis.

SECT. 2. In amenorrhæa—menorrhagia—leucorrhæa—nymphomania—scirrus—cancer.

## DIVISION VI.

*Remedies of the Sanguiferous System.*

SECT. 1. By blood-letting—venous and arterial.

SECT. 2. By cupping—scarification—leeches.

## DIVISION VII.

*Specific Medications against the Circumfusa, Applicata, Ingesta.*

SECT. 1. Miasmata—infection—contagion—poisons—antidotes.

## DIVISION VIII.

*Doses of Medicines.*

SECT. 1. Influence of their physical and chemical properties in mixture, and the form to be regarded in their exhibition.

SECT. 2. Precautions demanded by the character of the surfaces to which medicines are applied.



The foregoing prospectus exhibits an outline of the Lectures of Professor Macneven during the College Session from the beginning of November to the end of February.

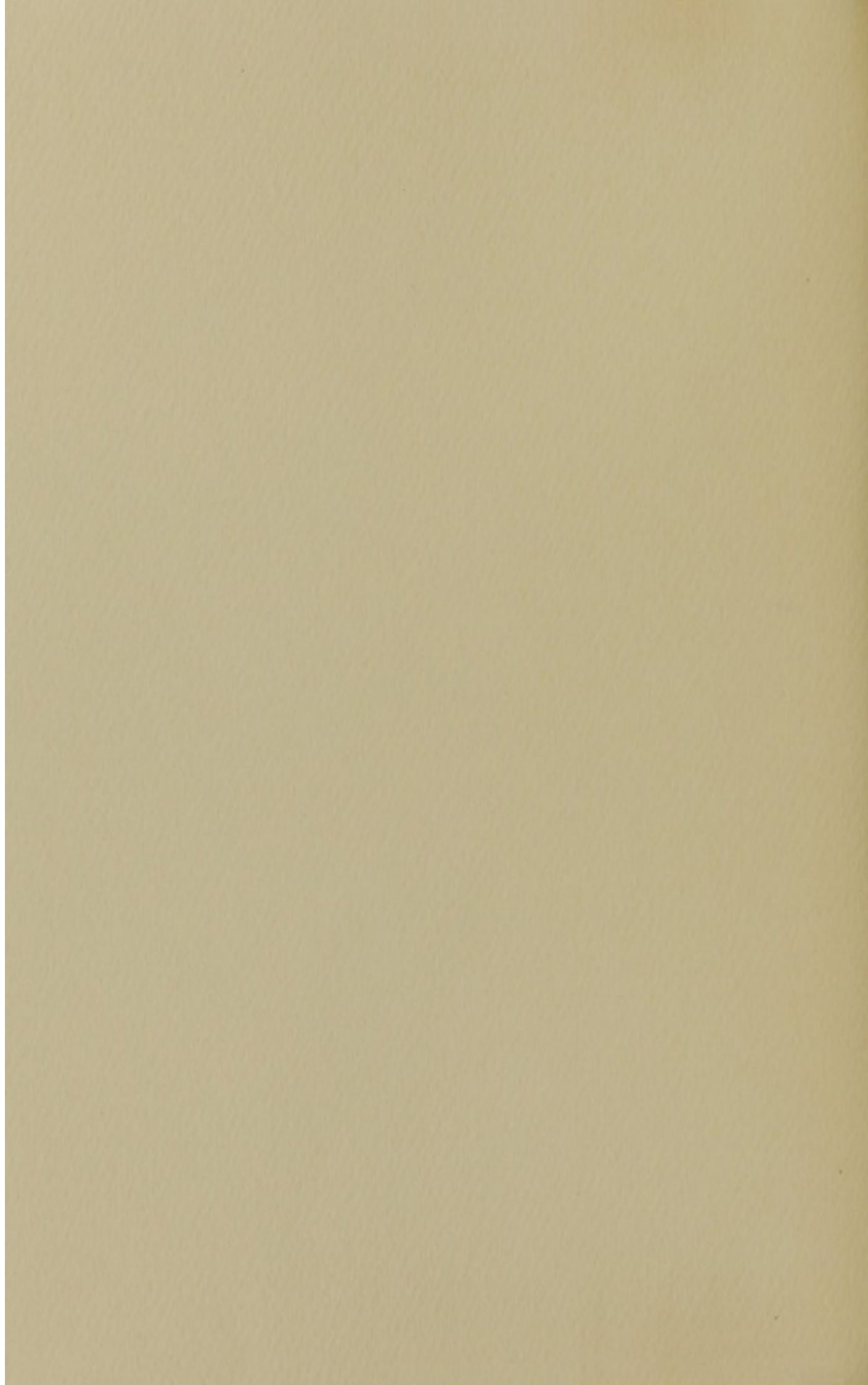
The first of May he commences a course of practical Chemistry and Pharmacy for his private pupils, which continues until the beginning of the public lectures in November. During this course, the pupil is furnished with opportunities, instruments and materials for performing experiments himself; he is taught to prepare the Chemical tests and products, the acids and alkalies in a state of entire purity; to make the more difficult preparations of the pharmacopeia and to execute the various kinds of analysis.

The analytical investigations of the pupils are published from time to time with the Names of their Authors; more especially when they relate to native fossils and minerals, and when they possess a sufficient degree of interest and merit.

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