

ease is always spreading from these breeding places, a selfish motive, if there be no better impulse to direct, will force municipalities to tax the rich in order to better the condition of the poor.

Man's most distinguished virtues have grown out of his worst vices. At first the strong protected himself, his dependents and his property by brute force. As his intelligence developed he secured this protection by the enactment and enforcement of law, but now this fails and he is being driven by necessity to practise humanity toward his less favored friend. The material betterment of all classes and conditions of men is demanded by the philosophy of science, and it must and will come, if not through the agency of a wise evolution, it will be reached by more costly and less humane methods.

It will be seen that my philosophy is thoroughly materialistic. I believe that man has been evolved from lower forms of animal life, that he has advanced, slowly and laboriously, with many atavistic lapses, from the brute to a condition of comparative civilization, that he will continue along this road which he has traveled through countless generations, and that this will ultimately lead the race over the mountain tops and into the promised land of human perfection. I look for this not for the individual, but for the race, of which each is a small, but an important part. I conceive the highest duty of the individual to contribute his mite to the betterment of the whole. Science teaches that what the man thinks, says and does lives after him, and influences for good or ill future generations. To me this is a higher, nobler and greater incentive to righteousness than any hope of personal reward or fear of punishment in a future life. I believe that this is a glorious world, full of great opportunities to the individual, and of unlimited

promise of development in the race. Life carries in itself the highest duties, the performance of which should not be regarded as tasks to be shirked if possible, or to be done reluctantly, but to be carried on with a spirit of thankfulness that it has fallen to the lot of the individual to be a participant in the great and glorious work of contributing to the uplift of the race. To widen the domain of knowledge, be it ever so little, to abate disease, to lessen pain and suffering, to decrease the burden of poverty, to brighten and ennoble the lives of others, to harness the forces of nature and make them subservient to man's will and contributory to his happiness, to increase the productiveness of the soil, to make man more considerate of his fellow, to appreciate and perform his duties, these are some of the things that science has done and is doing. To be even an humble and unknown worker in the great army of men who are doing these things is a privilege which should make glad the heart of any man.

VICTOR C. VAUGHAN

*THE TRANSCONTINENTAL EXCURSION OF  
THE AMERICAN GEOGRAPHICAL  
SOCIETY OF NEW YORK*

To celebrate the sixtieth anniversary of its founding, and the occupation of the new building which has been presented to it, the American Geographical Society of New York has planned, as has already been mentioned in SCIENCE, a transcontinental excursion, which is to be conducted by Professor William Morris Davis, of Harvard University. The excursion started from New York on August 22, and will end at New York on October 17 and 18, 1912. Many of the geographical societies of Europe were invited to appoint delegates to take part in the excursion. The following have accepted:

AUSTRIA

Dr. Eduard Brückner, professor of geography at the University of Vienna.

Dr. Fritz Machatschek, privatdozent of geography at the University of Vienna; editor of the *Mitteilungen* of the I. and R. Geographical Society of Vienna.

Dr. Eugen Oberhummer, professor of geography at the University of Vienna; president of the Geographical Society of Vienna.

## BELGIUM

Jules Leclerq, former president of the Royal Belgian Geographical Society.

Paul Elsen, member of the Royal Geographical Society of Antwerp.

## DENMARK

Professor Ole Olufsen, secretary of the Royal Danish Geographical Society.

## FRANCE

Henri Baulig, instructor in geography, University of Paris.

Albert Demangeon, professor of geography, University of Lille.

Emmanuel de Margerie, late president, Geological Society of France; associate editor, *Annales de Géographie*.

Edouard-Alfred Martel, Geological Survey of France; editor of *La Nature*.

Emmanuel de Martonne, professor of geography in the Universities of Lyons and Paris; associate editor of the *Annales de Géographie*.

Lucien Gallois, professor of geography, University of Paris; associate editor, *Annales de Géographie*.

Antoine Vacher, professor of geography, University of Lille.

## GERMANY

Dr. Erich von Drygalski, professor of geography, University of Munich.

Dr. Fritz Jaeger, professor of colonial geography, University of Berlin.

Dr. Gottfried Merzbacher, explorer, München.

Dr. Joseph Partsch, professor of geography, University of Leipzig.

Dr. Alfred Rühl, Oceanographical Institute, Berlin.

Dr. Carl Uhlig, professor of geography, University of Tübingen.

Dr. Wilhelm Volz, instructor in geography, University of Breslau.

## GREAT BRITAIN

Henry O. Beckit, School of Geography, University of Oxford.

George G. Chisholm, lecturer on geography, University of Edinburgh; secretary to the Royal Scottish Geographical Society.

Alan Grant Ogilvie, School of Geography, University of Oxford.

Wm. H. Myles, Dunbar, Scotland.

## HUNGARY

Dr. Eugene de Cholnoky, professor of geography, University of Kolozsvár.

Count Paul Teleki, secretary of the Hungarian Geographical Society, Budapest.

## ITALY

Dr. Olinto Marinelli, professor of geography at the Institute of Higher Studies, Florence; co-editor of the *Rivista Geografica Italiana*.

Professor G. Ricchieri, Milan.

## THE NETHERLANDS

J. F. Niermeyer, professor of economic geography, University of Utrecht; editor of the *Journal of the Royal Geographical Society of the Netherlands*.

Dr. Karl Oestreich, professor of physical geography, University of Utrecht.

## NORWAY

Werner Werenskiold, lecturer on physical geography, University of Christiania.

## PORTUGAL

Dr. Francisco Silva Telles, professor of geography in the Faculty of Letters, University of Lisbon.

## RUSSIA

Wladimir Doubiansky, Imperial Botanical Gardens, St. Petersburg.

Jules M. Schokalsky, professor of physical geography at the Académie Navale Nicolas and at the École Supérieure Pédagogique.

## SPAIN

Dr. Ricardo Beltrán y Rózpide, secretary of the Royal Geographical Society, Madrid; professor of geography at the School of Higher Studies for the Professorate.

## SWEDEN

Dr. Gunnar Andersson, professor of economic geography at the College of Commerce, University of Stockholm; secretary of the Swedish Anthropological and Geographical Society; editor of *Ymer*.

## SWITZERLAND

Emile Chaix, professor of economical and political geography, University of Geneva.

Dr. Fritz Nussbaum, instructor in geography, University of Bern; secretary of the Geographical Society of Bern.

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*INVESTIGATORS AT THE MARINE  
BIOLOGICAL LABORATORY*

THE investigators working at the Marine Biological Laboratory, Woods Hole, during the present season are:

Adkins, Walter S., graduate student, Columbia University.

Allyn, Harriet M., instructor in zoology, Vassar College.

Baitsell, George A., assistant in zoology, Yale University.

Bancroft, Frank N., associate, Rockefeller Institute.

Bartholemew, Elbert T., instructor in botany, University of Wisconsin.

Beckwith, Cora J., instructor in zoology, Vassar College.

Binford, Raymond, fellow in zoology, Johns Hopkins University.

Boring, Alice M., assistant professor of zoology, University of Maine.

Bradley, Harold C., assistant professor of physiological chemistry, University of Wisconsin.

Browne, Ethel N., graduate student, Columbia University.

Budington, R. A., associate professor of zoology, Oberlin College.

Calkins, Gary N., professor of protozoology, Columbia University.

Carver, Gail C., professor of biology, Mercer University, Macon, Ga.

Cary, Lewis R., instructor in zoology, Princeton University.

Chambers, Robert, associate professor of embryology and histology, University of Cincinnati.

Clapp, Cornelia M., professor of zoology, Mount Holyoke College.

Clark, Eleanor Linton, special student, Johns Hopkins University.

Clark, Eliot R., associate in anatomy, Johns Hopkins University.

Conklin, E. G., professor of biology, Princeton University.

Derick, Carrie M., professor of morphological botany, McGill University.

Donaldson, H. H., professor of neurology, Wistar Institute of Anatomy and Biology, Philadelphia.

Drew, Gilman A., assistant director, Marine Biological Laboratory.

Duggar, B. A., professor of plant physiology, Missouri Botanical Gardens, St. Louis, Mo.

Dungar, Neil S., acting professor of biology, Carleton College.

Edwards, Dayton J., tutor in physiology, College of the City of New York.

Ewald, W. F., fellow, Rockefeller Institute.

Flanigen, Ruth, graduate student, Columbia University.

Fromme, Fred D., assistant in botany, Columbia University.

Garrey, Walter E., associate professor of physiology, Washington University Medical College.

Goodrich, H. B., assistant in zoology, Columbia University.

Grave, Caswell, associate professor of zoology, Johns Hopkins University.

Gregory, Louise H., instructor in zoology, Barnard College.

Harper, R. A., professor of botany, Columbia University.

Hayden, Margaret A., teacher of biology, Western High School, Baltimore, Md.

Heilbrun, Lewis V., graduate student, Columbia University.

Hewitt, Joseph H., 2145 N. Halsted Street, Chicago, Ill.

Hickernell, Louis M., fellow, Princeton University.

Hoge, Mildred A., graduate student, Columbia University.

Hogue, Mary J., instructor in zoology, Mount Holyoke College.

Howe, Caroline C., teacher of biology, East Side High School, Newark, N. J.

Howland, Ruth B., associate professor of biology, Sweet Briar College.

Just, Ernest E., associate professor of biology, Howard University.

Kellersberger, Eugene R., graduate student, Washington University Medical School.

Kellicott, William E., professor of biology, Goucher College.

Kite, George L., fellow in pathology, Sprague Institute.

Knower, H. McE., professor of anatomy, University of Cincinnati.

Knowlton, Frank P., professor of physiology, Syracuse University.

Lewis, Ivey F., professor of biology, Randolph-Macon College.

# Science

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