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## Foraminifera in the Iowa Devonian

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some localities kames and other small hills located on and near these moraines aid in identifying them.

In many places parts of these moraines have been removed by erosion and in other places they are partially obscured by the influence of pre-Wisconsin topography.

IOWA STATE COLLEGE,  
AMES, IOWA.

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## OIL STRUCTURES IN IOWA

CHARLES KEYES

The smooth, illimitable prairies of our state offer to the public little encouragement for prosecuting systematic search for such forms of mineral wealth as natural gas and rock-oil. Yet, the possibilities are never absolutely negative; they are not nearly so hopeless as layman may imagine. On this score the bed-rock structures have a tale to tell that is a very different story from what might be ordinarily expected of so featureless a country. Before its prairies came lofty mountains, both within the present limits of the state and without in surrounding territory. Even the effects of the distant Rocky Mountains upheaval reach eastward to us, the arching of the Ozarks leaves noticeable traces with us, and the Black Hills come down to our very doors.

With recent analysis, in a somewhat preliminary way to be sure, of neighboring tectonics which also affect our state more or less appreciably, numerous instructive features reveal themselves. Pro-  
found faults, notable foldings some of which are broad and gentle, others sharp and local, anticlines of measurable amplitude, and domes are with us. Many of these have sufficient development to have direct bearing upon the possibilities of our possessing fuel and power resources which might turn out to rival our immense coal deposits. At least the prospect is sufficiently promising to warrant renewed and intensive attack upon the theme.

DES MOINES, IOWA.

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## FORAMINIFERA IN THE IOWA DEVONIAN

A. O. THOMAS

These microfossils were found in screenings obtained by washing some early shales from the Cerro Gordo member of the Upper

Devonian of Floyd County, Iowa. They belong to the genus *Endothyra* which is abundantly represented in the overlying Mississippian strata.

STATE UNIVERSITY OF IOWA,  
IOWA CITY, IOWA.

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A REVIEW OF THE TIME FACTOR REPRESENTED BY  
THE STRATIGRAPHIC BREAKS IN THE IOWA  
GEOLOGICAL COLUMN

A. O. THOMAS

Iowa's midcontinental location has made its area one of the last to be reached by the successive marine invasions from the Cambrian on. A quantitative study of the length of post-Cambrian time during which Iowa has been land versus the length of time it has been more or less a sea floor is offered.

STATE UNIVERSITY OF IOWA,  
IOWA CITY, IOWA.

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GLACIAL OUTLOOK FROM IOWA

CHARLES KEYES

Iowa and the upper Mississippi basin are, as is now quite generally known, in possession of the most complete Glacial succession in the whole world. With its great wealth of recorded observation the trend of inquiry turns not so much to unearthing more till-sheets, as was the prognostication of the enthusiastic Calvin, as it is to ferret out the most plausible causes of periodic glaciations, and especially to test their astronomical relationships.

The tripartite Wisconsin till affords an unmatched opportunity. At least Iowa, in her great ground-moraines, now seems to supply ample and critical evidences in support of a cosmical hypothesis, according to which the periodic recurrence of glaciations may be definitely initiated through the secular mutations of Earth's orbital excentricity. Iowa's outlook in this field is such that she may be shortly placed in the fore-front of global glaciology.

DES MOINES, IOWA.