```
Iowa Stratographic Column
November 4, 2013
  QUATERNARY
    Holocene Series
       DeForest Formation
         Camp Creek Member
         Roberts Creek Member
          Turton Submember
          Mullenix Submember
         Gunder Formation
          Hatcher Submember
```

Watkins Submember **Corrington Formation**

Flack Formation Woden Formation West Okoboji Formation **Pleistocene Series** Wisconsinan Episode Peoria Formation Silt Facies Sand Facies **Dows Formation**

Pilot Knob Member Lake Mills Member

Morgan Member Alden Member

Noah Creek Formation Sheldon Creek Formation Roxana/Pisgah Formation Illinoian Episode Loveland Formation Glasford Formation

Kellerville Memeber Pre-Illinoian Wolf Creek Formation Hickory Hills Member Aurora Memeber Winthrop Memeber

Alburnett Formation A glacial tills B glacial tills

Lava Creek B Volcanic Ash Mesa Falls Volcanic Ash Huckleberry Ridge Volcanic Ash C glacial tills **TERTIARY** Salt & Pepper sands **CRETACEOUS** "Manson" Group

"upper Colorado" Group Niobrara Formation Fort Benton ("lower Colorado") Group Carlile Shale Greenhorn Limestone **Graneros Shale**

Dakota Formation Woodbury Member Nishnabotna Member Windrow Formation Ostrander Member

Iron Hill Member **JURASSIC** Fort Dodge Formation PENNSYLVANIAN (subsystem of Carboniferous System) Wabaunsee Group Wood Siding Formation Root Formation

French Creek Shale Jim Creek Limestone Friedrich Shale Stotler Formation Grandhaven Limestone Dry Shale Dover Limestone Pillsbury Formation Nyman Coal Zeandale Formation

Maple Hill Limestone Wamego Shale Tarkio Limestone Willard Shale **Emporia Formation** Elmont Limestone Harveyville Shale Reading Limestone Auburn Shale Bern Formation Wakarusa Limestone Soldier Creek Shale Burlingame Limestone Scranton Formation Silver Lake Shale

> Rulo Limestone Cedar Vale Shale Elmo Coal

Happy Hollow Limestone

White Cloud Shale Howard Limestone Utopia Limestone Winzeler Shale Church Limestone Aarde Shale Nodaway Coal Severy Shale **Shawnee Group** Topeka Formation Coal Creek Limestone Holt Shale DuBois Limestone Turner Creek Shale Sheldon Limestone Jones Point Shale Curzon Limestone Iowa Point Shale

Hartford Limestone Calhoun Shale **Deer Creek Formation** Ervine Creek Limestone Burroak Shale Haynies Limestone Larsh Shale Rock Bluff Limestone Oskaloosa Shale Ozawkie Limestone Tecumseh Shale Lecompton Formation Avoca Limestone King Hill Shale Beil Limestone Queen Hill Shale Big Spring Limestone Doniphan Shale Spring Branch Limestone Kanwaka Shale **Oread Formation**

Kereford Limestone Heumader Shale Plattsmouth Limestone Heebner Shale Leavenworth Limestone Snyderville Shale Toronto Limestone **Douglas Group** Lawrence Formation Cass Limestone Shoemaker Limestone Little Pawnee Shale Haskell Limestone Stranger Formation Iatan Limestone Weston Shale **Lansing Group** South Bend Limestone Kitaki Limestone Gretna Shale Little Kaw Limestone Rock Lake Shale Stanton Formation Stoner Limestone Eudora Shale Vilas Shale

Captain Creek Limestone Plattsburg Formation Spring Hill Limestone Hickory Creek Shale Merriam Limestone **Kansas City Group** Lane Shale Wyandotte Formation Argentine Limestone Quindaro Shale Liberty Memorial Shale Iola Formation Muncie Creek Shale Paola Limestone Chanute Shale **Dewey Formation** Cement City Limestone Quivira Shale Pammel Park Limestone Nellie Bly Shale Cherryvale Formation Westerville Limestone Wea Shale Block Limestone Fontana Shale **Bronson Group Dennis Formation** Winterset Limestone Stark Shale Canville Limestone

Galesburg Shale Swope Formation Bethany Falls Limestone Hushpuckney Shale Middle Creek Limestone Elm Branch Shale Hertha Formation Sniabar Limestone Mound City Shale East Peru Limestone Pleasanton Formation Manly-Guthrie Mountain Shale Ovid Coal Exline Limestone Hepler Shale Green Valley Coal

Marmaton Group Lost Branch Formation Cooper Creek Limestone Nuyaka Creek Shale Sni Mills Limestone Memorial Shale Lenapah Formation Nowata Shale Altamont Formation Worland Limestone Lake Neosho Shale Amoret Limestone Bandera Shale Farlington Limestone Pawnee Formation Coal City Limestone Mine Creek Shale Myrick Station Limestone Anna Shale Labette Formation Mystic Coal Marshall Coal Stephens Forest

Higginsville Limestone Blackwater Creek Shale Houx Limestone Clanton Creek Limestone Little Osage Shale Morgan School Shale Summit Coal Mouse Creek Formation Blackjack Creek Limestone Excello Shale **Cherokee Group** Swede Hollow Formation Mulky Coal Bevier Coal Wheeler Coal Ardmore Limestone Oakley Shale Whitebreast Coal Floris Formation Carruthers Coal Laddsdale Coal Spoon Formation

> Kalo Formation Cliffland Coal Blackoak Coal Kilbourn Formation Caseyville Formation Wyoming Hill Coal Wildcat Den Coal

Dolbee Creek Member **Sub-Augusta Group** Gilmore City Formation Humboldt Oolite Alden Limestone Iowa Falls Dolomite Maynes Creek Formation Eagle City Member Wassonville Member North Hill Group Chapin Formation Starrs Cave Formation **Prospect Hill Formation**

MISSISSIPPIAN (subsystem of Carboniferous System) Pella (Ste. Genevieve) Formation St. Louis Formation Waugh Member Verdi Member Yenruogis Sandstone Croton Member Spergen Formation Augusta Group Warsaw Formation **Keokuk Formation** Bentonsport Member Montrose Chert **Burlington Formation** Cedar Fork Member Haight Creek Member

McCraney Formation **DEVONIAN** Yellow Spring (New Albany) Group Maple Mill Formation English River Member Grassy Creek Member Aplington Formation Sheffield Formation Sweetland Creek Formation Lime Creek Formation

Owen Member

Cerro Gordo Member Juniper Hill Member **Cedar Valley Group** Shell Rock Formation Nora Memeber Rock Grove Member Mason City Member

Lithograph City Formation

Idlewild Member Thunder Woman Shale Andalusia Member Osage Springs Member State Quarry Member Coralville Formation Iowa City Member Gizzard Creek Member Cou Falls Member Little Cedar Formation

> Hinkle Member Eagle Center Member Chickasaw Shale Bassett Member

Cedar Rapids Member Coggon Member Spillville Formation Lake Meyer Member **Bertram Formation**

Devonian/Ordovician undiff.

Rapid Member Curtis Bridge Solon Member Wapsipinicon Group Pinicon Ridge Formation Davenport Member Spring Grove Member Kenwood Member Otis Formation

Gower Formation Brady Member Anamosa Member LeClaire Member LaPorte City Formation Scotch Grove Formation Palisades-Kepler Member Waubeek Member Buck Creek Quarry Member Welton Member Johns Creek Quarry Member Hopkinton Formation

SILURIAN

Neda Member Brainard Shale Clermont Shale Elgin Limestone Scales Member Galena Group Littleport Member Luana Member

Marcus Member Sweeney Member Waucoma Formation **Blanding Formation Mosalem Formation ORDOVICIAN** Maquoketa Formation Ft. Atkinson Limestone

Tete des Morts Formation Tete des Morts/Mosalem undiff.

Clermont-Brainard undiff. **Dubuque Formation**

Frankville Member Wise Lake Formation Stewartville Member Sinsinawa Member **Dunleith Formation** Wyota Member Wall Member Sherwood Member Rivoli Member Mortimer Member

Fairplay Member Eagle Point Member Beecher Member

Picture Rock Member Farmers Creek Member

St. James Member Buckhorn Member **Decorah Formation** Ion Member Guttenberg Member Spechts Ferry Member Decorah/Platteville undiff. Decorah/Platteville/Glenwood undiff. Platteville Formation Quimbys Mill Member

McGregor Member Pecatonica Member

Glenwood Formation Starved Rock Sandstone Harmony Hill Member St. Peter Sandstone Tonti Member Readstown Member Winneshiek Shale

Prairie du Chien Group Shakopee Formation Willow River Member New Richmond Member

Oneota Formation Cambrian/Ordovician undiff.

> Jordan Formation Coon Valley Member Waukon Member Van Oser Member Norwalk Member St. Lawrence Formation

Lodi Member

Reno Member Tomah Member Birkmose Member Adel Formation Wonewoc Formation Ironton Member Galesville Member **Bonneterre Formation**

Black Earth Member Tunnel City Group Lone Rock Formation

Bonneterre/Eau Claire undiff.

Washington County Quartzite

Cedar Rapids Quartzite

Matlock Banded-Iron

Lyon County Gneiss

Eau Claire Formation Mt. Simon Formation

PROTEROZOIC

Sioux Quartzite

Hull Rhyolite Harris Granite Hawarden Granite Camp Quest Group LeMars Gneiss

ARCHEAN

CAMBRIAN

Ancell Group