Albert D. Kollar

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* Head of Section and Collection Manager, Section of Invertebrate Paleontology.
* M.S. Geology and Invertebrate Paleontology, University of Pittsburgh.
* Architecture Historian of Carnegie’s Building Stones.

# Current Initiatives

* Baron de Bayet Collection Archives Parts I - V. **KOLLAR**, J. WILSON, L. SCHOENMAKERS, J. DITTMAR, S. MILLS,
* Architecture and Building Stones of Carnegie Libraries built by Alden and Harlow, Architects. **KOLLAR**, VATER, AND HARPER.
* The Kirmenjak Stone (Jurassic) of Istria Croatia at the Carnegie Institute Extension, Pittsburgh, Pennsylvania and in World Architecture. **Kollar**, COTMAN (deceased), BARUDŽIJA, and ALJINOVIĆ.
* The Architecture, Geology and Cultural History of Oakland. **KOLLAR**, VATER, AND HARPER.
* Geology, Cultural, and Economic History Field Guidebook: From Carnegie Complex (Oakland) to Braddock, Pennsylvania. **KOLLAR** AND NOE.
* The Geologic and Climate Assessment of the Landscape Paintings of the Carnegie Museum of Art Collection. **KOLLAR** AND MILLS.
* A Geological Review of the Egyptian Artifacts on Display in the Walton Hall of Ancient Egypt at the Carnegie Museum of Natural History. **KOLLAR**, PRELLWITZ, MILLS, AND LOVE.
* The *Arthropleura* Trackway (*Diplichnites cuithensis* (Briggs, Rolfe, and Brannan, 1979) from the Middle Pennsylvanian Upper Freeport Roof Coal Allegheny Formation, Harrison County, Ohio. HANNIBAL, **KOLLAR**, BOHAN.

# Brachiopods species and Trilobite Genus/Species Assigned: Named For Kollar:

* **Brachiopods**. *Tomiproductus* ***kollari*,** Carter, 1990. *New Brachiopods (Brachiopoda: Articulata) from the Late Osagean of the Upper Mississippi Valley*. ACM 59.
* *Rhynchopora* ***kollari*,** new species, Carter, 1999. Tournaisian (Early Osagean) *Brachiopods from a Bioherm in the St. Joe Formation near Kenwood, Oklahoma*. ACM 68.
* **Trilobites**. ***Kollarcephalus***: new genus, Brezinski, 2000. *Lower Mississippian Trilobites from Southern New Mexico*. JOP 74.
* ***Kollarcephalus*** *granatai* n. genus and species, Brezinski, 2000
* ***Kollarcephalus*** *placida* (Vogdes, 1896).

# Awards:

2020: Walt Skinner Award – Pittsburgh Geological Society

2019: GSIS Award for Best Guidebook (professional) *Geology of the Early Iron Industry in Fayette County, Pennsylvania* – Geological Society of America.

2017: George V. Cohee Public Service Award – Eastern Section American Association Petroleum Geologists

## Section of Invertebrate Paleontology Endowments:

* Field and Building Stone Research.
* Collection Support – *Lauradanae* Fund

# Pittsburgh Geological Society (PGS):

* President (2011 – 2014).
* Board Member. Director At Large, 2004 – 2010, 2015 – Current.

# Professional Memberships:

* Association for the Study of Marble & Other Stones in Antiquity (ASMOSIA).
* SPIA Sauvegarde du Patrimoine Industriel d’Autrefols, Saint Quentin Sur-Isere, France.
* Pittsburgh Geological Society (PGS).
* American Association of Petroleum Geologists (AAPG).
* Geological Society of America (GSA).
* International Congress on the Carboniferous and Permian Stratigraphy.

# Publications on Carnegie Museums Collections, Geology, and Paleontology:

Harper, J. A., and **A. D. Kollar**. Geology of a Former Pleistocene Bog in Bridgeville, Allegheny County, Pennsylvania. Pennsylvania Geology. In Press.

Brezinski, D.K., and **A. D. Kollar**. A Review of the Origin of the Loyalhanna Limestone (Chesterian, Upper Mississippian) in Southwestern Pennsylvania. Pennsylvania Geology. In Press.

Brezinski, D. K. and **A.D. Kollar** 2021. Geology of Jumonville Glen. In Geology of Ohiopyle State Park and the Laurel Highlands of Southwestern Pennsylvania. 85th Annual Field Conference of Pennsylvania Georgists (Eds. J. Shaulis, F. Pazzaglia, and S. Linberg, p. 159 -162.

Harper, J. A., and **A. D. Kollar.** 2021. Fayette County’s Pioneering Iron Industry. In Geology of Ohiopyle State Park and the Laurel Highlands of Southwestern Pennsylvania. 85th Annual Field Conference of Pennsylvania Georgists (Eds. J. Shaulis, F. Pazzaglia, and S. Linberg, p. 207 -228.

Brezinski, D. K., and **A. D. Kollar**. 2021. Fauna and Lithofacies of the Loyalhanna Limestone (Chesterian, Upper Mississippian) and their Implications for its Origin in the Appalachian Basin. ACM, 87:139 – 156.

**Kollar, A.D.**, et al. 2020.Carnegie Institute Extension Connemara Marble: Cross-Atlantic Extension Cross-Atlantic Connections between Western Ireland and Gilded Age Architecture in Pittsburgh, Pennsylvania. ACM 86:207 – 253.

Dumont, T, SPIA (**Albert D. Kollar**). 2020. Échaillon stone from France: a Global Heritage Stone Resource proposal. Geological Society of London Special Publication No 486 "Global Heritage Stone: Worldwide Examples of Heritage Stones”.

Harper, J.A., **A.D. Kollar** and Kay Hughes. 2020. *Reflections on Palmichnium kosinskiorum-The Footprints of Pennsylvania’s Elusive Elk County Monster*. Pennsylvania Geology, 49: 3 – 11.

SPIA (**Albert D. Kollar**) 2019. *La pierre de l’Echaillon*. 209.

**Kollar, A.D.**, and J.A. Harper. *Pennsylvanian Climate-Driven Sedimentary Cycles with Emphasis on the Monongahela Formation*. In Gross, M. A., Harper, J. A., and **Kollar, A.D.** 2019. *Geology and Archaeology of Meadowcroft Rockshelter and the Multiple Ice Ages of Southwestern Pennsylvania*. Guidebook Pittsburgh Geological Society Fall Field Trip, 67.

Feely, M., Derek H. Wilton, Alessandra Costanzo, **Albert D. Kollar**, Dylan J. Goudie and Ambrose Joyce. 2019. *Mineral Liberation Analysis and Scanning Electron Microscopy of Connemara Marble: New Mineral Distribution Maps of an Iconic Irish Gem Material.* The Journal of Gemmology, 36:456-466.

**Kollar, A.D.** 2018. *The Pentelic Marble of the Carnegie Museum of Art, Hall of Sculpture, Pittsburgh, Pennsylvania,* in ASMOSIA XI Interdisciplinary Studies of Ancient Stone, Proceedings of Eleventh International Conference of ASMOSIA, Split, 18-22 May 2015, 491-500.

Brezinski, D.K., and **A. D. Kollar.** 2018. *Origin of the Carnegie Quarry Sandstone (Morrison Formation), Jurassic) at Dinosaur National Monument, Jensen, Utah*. PALAIOS Emphasizing the Impact of Life on Earth’s History, 33:94 – 105.

Brezinski, D. K. and **Kollar, A.D**. 2016. *Reevaluation of the Age and Provenance of the Giant Palmichnium Kosinskiorum Eurypterid Trackway, from Elk County, Pennsylvania*. ACM 84:1-7.

Lucas, S.G., **Kollar, A. D.**, Berman, D.S., Henrici, A.C. 2016. *Pelycosaurian-Grade (Amniota: Synapsida) Footprints from the Lower Permian Dunkard Group of Pennsylvania and West Virginia.* ACM, 83:287-294.

Harper, J. L., and **A.D. Kollar.** 2015. *Reflections on “Spirifer disjunctus”, a group of Late Devonian brachiopods useful for correlations in Pennsylvania*. Pennsylvania Geology, 45:11-21.

Carter, J.L. Brezinski, D.K. **A.D. Kollar**, Dutro, T. 2014. *Brachiopoda Taxonomy and Biostratigraphy of the Redwall Limestone (Lower Mississippian) of Arizona*. Annals of Carnegie Museum (ACM), 82:257 – 290.

Brezinski, D.K. and **A.D. Kollar.** 2011. *Pennsylvanian climatic events and their congruent biotic responses in the central Appalachian Basin*, in Ruffolo, R.M., and Ciampaglio, C.N., eds. From the Shield to the Sea: Geological Field Trips from the 2011 Joint Meeting of the GSA Northeastern and North-Central Sections: Geological Society of America Field Guide 20:45 – 60. **Field trip leader.**

Berman, D.S., A. C. Henrici, D. K. Brezinski**, A.D. Kollar**. 2010. *A new Trematopid Amphibian (Temnospondyl: Dissorophoidea) from the upper Pennsylvanian of western Pennsylvania: Earliest record of terrestrial vertebrates responding to a warmer, drier climate.* ACM, 78, 289 – 318.

Brezinski, D.K. and **A.D. Kollar**. 2008. *Geology of the Carnegie Museum Dinosaur Quarry Site of Diplodocus Carnegii, Sheep Creek, Wyoming*. ACM, 77, 243 – 252.

Carter, J.L., **A.D. Kollar**, and D.K. Brezinski. 2008. *Earliest report of the genus Phyricodothyris (Brachiopoda: Reticulariodea) in North America*. ACM, 77, 253 – 257.

Brezinski, D.K., and **A.D. Kollar** **(presenter)**. 2006. *Paleoenvironmental Significance of Invertebrate Faunas from the Late Mississippian Loyalhanna Formation of the North-Central Appalachians Basin*. Geological Society of America, Abstracts with Programs, Poster 47.

Brezinski, D.K., and **A.D. Kollar (presenter)**. 2002. *Recovery from Crisis during Crisis: Earliest Carboniferous Buildups of Missouri and Arkansas*. Geological Society of America Abstracts with Programs, Poster 24.

# Architecture, Geology, and Cultural History of Carnegie’s Building Stones:

2022. **Kollar, A.D**. The Échaillon Stone and Hauteville Limestone in World Architecture. ASMOSIA XIII, Vienna, Austria. **Invited Presentation.**

2021. **Kollar, A. D.** The Carnegie Library of Pittsburgh (1895) and Carnegie Institute

Extension: The Story of the Carnegie Building Stones and Architectural Design. **Invited Presentation** “Crash the Carnegie” 125th Anniversary Celebration.

2021. **Kollar, A. D.** DE L’ÉCHAILLON À L’ANNEXE DU CARNEGIE DE INSTITUTE DE PITTSBURGH ÉCHAILLON Stone from France: A Global Héritage Stone Meeting, Saint-Quentin-sur- Isère, France.

2020. **Kollar, A.D.,** et al. Carnegie Institute Extension Connemara Marble: Cross-Atlantic Extension Cross-Atlantic Connections between Western Ireland and Gilded Age Architecture in Pittsburgh, Pennsylvania. ACM 86: 207 – 253.

2020. Dumont, T, SPIA (**Albert D. Kollar**). Échaillon stone from France: a Global Heritage Stone Resource proposal. Geological Society of London Special Publication No 486 "Global Heritage Stone: Worldwide Examples of Heritage Stones”.

2019. **Kollar, A.D.** *The Breche Sanguine Marble from Algeria in the Carnegie Museum Pittsburgh, Pennsylvania*, U.S.A. ASMOSIA XII **A**ssociation for the **S**tudy of **M**arble & **O**ther **S**tones **I**n **A**ntiquity INTERNATIONAL CONGRESS, Izmir, Turkey.

2019. Feely, M., Derek H. Wilton, Alessandra Costanzo, **Albert D. Kollar**, Dylan J. Goudie and Ambrose Joyce. 2019. *Mineral Liberation Analysis and Scanning Electron Microscopy of Connemara Marble: New Mineral Distribution Maps of an Iconic Irish Gem Material*. The Journal of Gemmology, 36, 456-466.

2018. **Kollar, A.D**. 2018*. The Pentelic Marble of the Carnegie Museum of Art, Hall of Sculpture, Pittsburgh, Pennsylvania*, in ASMOSIA XI Interdisciplinary Studies of Ancient Stone, Proceedings of Eleventh International Conference of ASMOSIA, Split, 18-22 May 2015, 491-500.

2018. **Kollar, A. D**. 2018. *The Breche Sanguine Marble from Algeria in the Carnegie Museum Pittsburgh, Pennsylvania*, U.S.A. Abstract with Programs. ASMOSIA XII **A**ssociation for the **S**tudy of **M**arble & **O**ther **S**tones **I**n **A**ntiquity INTERNATIONAL CONGRESS. 8 – 14 October,2018, Izmir, Turkey. 77.

2018. **Kollar, A. D.,** R. Fedosick, and K. Hughes. 2018. *The Signature Dimension Stones Used by Longfellow, Alden and Harlow, Architects – In Classical Pittsburgh Architecture from 1887 - 1910* **(Invited Presentation)**. Geological Society of America, Abstracts with Programs, v. 50, 201.

2018. **Kollar A.D.,** K. Hughes, and R. Fedosick. 2018. *A Review of Pittsburgh Stones and Architecture Styles from 1764 – 1938.* Geological Society of America, Abstracts with Programs, v. 50, 201.

2017. **Kollar, A.D.,** M. Feely, A.M. Joyce Jr., R. Fedosick, K. Hughes. 2017. *The Industrial Archaeology of the Connemara Marble: Cross-Atlantic Connections between Western Ireland and the Carnegie Museum of Natural History, Pittsburgh, Pennsylvania.* Geological Society of America Abstracts with Programs, Pittsburgh, v. 49, 44.

2015. **Kollar, A.D.** 2015. *The Pentellic Marble of the Carnegie Museum of Pittsburgh, Pennsylvania U.S.A.* Abstracts ASMOSIA XI, **A**ssociation for the **S**tudy of **M**arble & **O**ther **S**tones **I**n **A**ntiquity, International Conference, Split, Croatia, 18-22 May.

# Architecture and Building Stones Blogs:

<https://carnegiemnh.org/125th-anniversary-carnegie-library-of-pittsburgh-outdoor-walking-tour/>

<https://carnegiemnh.org/carnegie-museum-grand-staircase/>

<https://carnegiemnh.org/carnegies-water-fountains/>

<https://carnegiemnh.org/facing-outward-looking-ahead-richard-serras-carnegie-as-part-of-an-125-year-legacy-of-architecture-and-outdoor-sculpture/>

# IP Collection Blogs:

Vincett, W., and **A.D. Kollar**. *Fossil on display in DITT - Lyme Regis, England Jurassic age fossils*. Virtual Exhibit

## Marry Anning: [https://carnegiemnh.org/mary-anning-for-the-love-of-the-blue-lias/](https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fcarnegiemnh.org%2fmary-anning-for-the-love-of-the-blue-lias%2f&c=E,1,oYZDMggTNcakXeAYgOEYMjis_mt75P1ajM5EMcIwd4vEk_2WgIrOb0sLDDMQUqE1JNPU37wlX6oEztQQMavqmYvdLLTnQaybtH35JaJNlQL7P6Gp&typo=1)

Major Young: :  [https://carnegiemnh.org/a-century-ago-a-donor-walked-into-the-carnegie-museum/](https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fcarnegiemnh.org%2fa-century-ago-a-donor-walked-into-the-carnegie-museum%2f&c=E,1,RzzVouOiljmgINwHidZ-PSoMEN11N9MAmvMTEtzTQzUEo7of-V-HesKAMe3CvGDVJgIygb9SvGCP471kJZbaRG_bKrnS5Yd9h5g3aRcoi-Zwh56fYNsD2d9JJg0,&typo=1)

## Smoking Fossils: [https://carnegiemnh.org/smoking-fossils/](https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fcarnegiemnh.org%2fsmoking-fossils%2f&c=E,1,DnTcohZ4Vd6_jCJumnLGQOjgeUx-wnq0Ey-6rDj5uKKWAYX7-v9hbqoVO-N2dMMN2jxwd2VR5Cmd2Y02nwgR9A8TS3EaMdgxVUaTeFuZsgDC0f53bwnn-yfnVA,,&typo=1)

Graham Netting: [https://carnegiemnh.org/from-collector-to-director/](https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fcarnegiemnh.org%2ffrom-collector-to-director%2f&c=E,1,jdJnypylhrxs6EWF1O63Ca8aWXykY9hnnXi1UpmwRyMrOCePKPAA8Km_Dejst_bne158Xk5cOYXJJvk4YSMNRBwfBbWWnUt7rliaaWCG&typo=1)

Bayet Intro: 1st Bayet.<https://carnegiemnh.org/bayets-bounty-invertebrates/>

<https://carnegiemnh.org/bayets-bounty-invertebrates/>

<https://carnegiemnh.org/meet-the-mysterious-mr-ernest-bayet/>

# Bayet-Stilwell Series

Part 1:  [https://carnegiemnh.org/behind-the-scenes-with-the-baron-de-bayet-and-l-w-stilwell-collection-part-1-crossing-the-atlantic-with-a-boatload-of-fossils/](https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fcarnegiemnh.org%2fbehind-the-scenes-with-the-baron-de-bayet-and-l-w-stilwell-collection-part-1-crossing-the-atlantic-with-a-boatload-of-fossils%2f&c=E,1,51ahVt79NXIXVyS9w8GlMYV3GAsTipojGPd6d9mLvOiBE0uCFo9R6z9tmNJD9qAOMge7PlbIoXlek6R36dXDYfS_g3a48TdCE1nWqTyT&typo=1)

Part 2:  [https://carnegiemnh.org/bayet-deadwood-wild-west/](https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fcarnegiemnh.org%2fbayet-deadwood-wild-west%2f&c=E,1,vfdcUj_5xcRLlBk_F2PSSunuWm71oxJokxgi5H9dd8ua-gbwJBApb0GbSbBPqoKc07EZAkCm2455xVsJCqssy_Z6Phmp_g7_GYfyt5AV69GIHtpRRekf26c0&typo=1)

Part 3:  [https://carnegiemnh.org/badlands-bayet-stilwell-collection/](https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fcarnegiemnh.org%2fbadlands-bayet-stilwell-collection%2f&c=E,1,w1ZYQQK73RhwjKNPnUVPRG0aFBdafaXsnGl7L_v5AWgmhFAxOS5b4q3f-H2Ue3-Lteqhv7lisDhdbvDFlIcVxh9SOgEXHq5Bk4D4kkYTohFQUa4cDxM,&typo=1)

Part 4:  [https://carnegiemnh.org/behind-the-scenes-with-the-baron-de-bayet-and-l-w-stilwell-collection-part-4-buying-and-selling-fossils-in-the-19th-century/](https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fcarnegiemnh.org%2fbehind-the-scenes-with-the-baron-de-bayet-and-l-w-stilwell-collection-part-4-buying-and-selling-fossils-in-the-19th-century%2f&c=E,1,AnbCjzdHtBTzhTfR_J6UAgGeEaUNy39-ySl_-Jln6Hmeo8eNEneTClZaxWjVJ3vr-2Vme6XZyXy8tR1zTnJ4HZneiY6a7xONV6GSFhHTIpC9Y9jJXKMYQrAzJw,,&typo=1)

[https://carnegiemnh.org/student-of-the-world-stearns-and-bayet/](https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fcarnegiemnh.org%2fstudent-of-the-world-stearns-and-bayet%2f&c=E,1,V9Bl2tY1xLbavcJH8JjLKYXVnpTc3vjf_5R19pN7GyY4tU-5_bcbkW4YHlOg_TDPnkaDL-JyNzF7iOxryvQxBRPWv-MiNIS72Rq4EojqZfU,&typo=1)

[https://carnegiemnh.org/century-old-fossil-mystery-stearns-and-bayet/](https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fcarnegiemnh.org%2fcentury-old-fossil-mystery-stearns-and-bayet%2f&c=E,1,voP54dk4hQfiABEgbt9vhiPggsfIcxGjWehjdITp8Ltzx0QGtUY_yjY04BqrQcTz26dAq_UdnPd3dC5z8mwn_f2kjqcD12wZH0jbbRbm5_q0xA,,&typo=1)

<https://carnegiemnh.org/bayet-and-krantz-16-words-part-1/>

<https://carnegiemnh.org/meet-the-mysterious-mr-ernest-bayet/>

[https://www.thesciencewriter.org/uncharted/baron-bayet-fossil-collection](https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fwww.thesciencewriter.org%2funcharted%2fbaron-bayet-fossil-collection&c=E,1,MuwhUjup1wzs7J-QYaYRNmqjSAbbJzRIzp68obX1jmGo9nei-1knZD5LO6AePwec1t1tpgeUo5dLlkwgaRgM4P2ePuZSHg-iyJ4HSezYGEk5&typo=1)

Carnegie’s Fossil Fuels Exhibits. <https://carnegiemnh.org/understanding-fossil-fuels-through-carnegie-museums-exhibits/>

To Cross A Bridge. <https://carnegiemnh.org/to-cross-a-bridge-fern-hollow-bridge-in-pittsburgh-a-geology-story/>

# Landscape Paintings, Geology, and Climate:

2018**. Kollar, A.D**. 2018. “*How Geology and Climate Influenced the Landscape Paintings of John Kane”.* Presented to the Squirrel Hill Historical Society.

2018. Wendel, J. 2018. *A Window into the Emerging Anthropocene...Through Art*. Documented from **Kollar** and Hughes presentation Geological Society of America Anthropocene Symposium. EOS.org Earth and Space News, April 99, 15 – 17.

2017**. Kollar, A.D**., and K. Hughes. 2017. *Geology of the Landscape Paintings at the Carnegie Museum of Art, A Reflection of the* Anthropocene, 1860 to 2017. Geological Society of America, Abstracts with Programs, v. 49, 243.

2016**. Kollar, A.D**. 2016. *How Geology and Climate Change Influenced the Pittsburgh Landscape Paintings of William C. Wall, Russell, and John Kane*. Museum and More A Presentation to the Patrons of the Carnegie Museum of Pittsburgh.

2015**. Kollar, A.D**. 2015. *Geology and John Kane Landscapes and Climate*. Presented to Museum of Art Docents.

2010**. Kollar, A.D.,** and D.K. Brezinski. 2010*. Geology, Landscapes and John Kane’s Landscape Paintings*. PA*l*S Publication 10, 5.

# Regional Field Guides and Poster:

2021. **Kollar, A. D**. Co-leader. Guidebook for the 85th Annual Field Conference of Pennsylvania Geologists October 7-9, 2021. Geology of Ohiopyle State Park-and the Laurel Highlands of Southwestern Pennsylvania Editor Robin Anthony, Pennsylvania Geological Survey, Pittsburgh, Pennsylvania.

2019**. Kollar, A.D**. 2019. *New Geology Along the Montour Trail Guide* issued on-line.

2019. Gross, M. A., Harper, J. A., and **Kollar, A.D.** 2019**.** *Geology and Archaeology of Meadowcroft Rockshelter and the Multiple Ice Ages of Southwestern Pennsylvania*. Guidebook Pittsburgh Geological Society Fall Field Trip.

2019**. Kollar, A.D**., and D. A. Billman. 2019. *The Last Ice Age in Western Pennsylvania: A Changing Climate as Seen in the Glacial Landscapes*. Guidebook Pennsylvania Council of Professional Geologists.

2018. Harper, J.A., and **A.D. Kollar**. 2018. *Geology of the Early Iron Industry in Fayette County, Pennsylvania*. Pittsburgh Geological Society Field Trip. Awarded **Best Professional Guidebook 2019** by Geological Society of America.

2015. **Kollar, A.D.,** Harper, J.A., David Cale. 2015. *Karst, caves, and Chestnut Ridge. Geology of the Laurel Caverns Area, Fayette CO., Pennsylvania*. PA*l*S Field Trip, PA*l*S Publication 20.

2014**. Kollar, A.D**., Harper, J.A., Norman L. Samways. 2014. *Geology and History of Ironmaking in Western Pennsylvania*. PA*l*S Publication 19.

2011. Brezinski, D.K. and **Kollar, A.D.** 2011.*Pennsylvania climatic events and their congruent biotic responses in the central Appalachian Basin*. The Geological Society of America Field Guide 20.

2009. Brezinski, D. K., and **A.D. Kollar**. 2009. *Geology of North Park*. In cooperation with Allegheny County Park Department and RAD. 5.

2008. **Kollar, A.D.** 2008. *Tales of the French and Indian War during 1758: Forbes Road from Fort Bedford to Pittsburgh*: Pittsburgh Geological Society, 30p.

2004. Brezinski, D.K., and **A.D. Kollar**. 2004. *Lewis and Clark Expedition 1803 – 1806. Geology, Invertebrate Paleontology, and the Lewis and Clark Trail*. Poster and Seminar, National Park Signature Event, St. Charles, Mo.

# Co0Founder: PA*L*S (Patrons and Lauradanae Supporters) an Invertebrate Paleontology Geology and Paleontology Outreach Program with Publications.

# PA*L*S Guides of Regional Geology, Cultural History and Fossil Climate Change:

Number 21. Harper, J. A. 2016. *The Geological Evolution of Pittsburgh’s Three Rivers*. PAlS Publication 21, 5.

Number 20. **Kollar, A.D**., Harper, J.A., and D. Cale. 2015. *Karst, caves, and Chestnut Ridge. Geology of the Laurel Caverns Area, Fayette CO., Pennsylvania*. PA*l*S Field Trip, PA*l*S Publication 20.

Number 19. **Kollar, A. D**., Harper, J. A., and N.L. Samways. 2014. Geology and History of ironmaking in western Pennsylvania. Field Trip Guidebook, PA*l*S Publication 19, 31.

Number 18. Brezinski, D.K., and C. K. Brezinski. 2014. *Geology of Pennsylvania’s Coal*. PA*l*S Publication 18, 5.

Number 17. Brezinski, D. K., and **A.D. Kollar**. 2014. *PAlS Climate Scavenger Hunt*. PA*l*S Publication 17, 5.

Number 16. Samways, N. L., J. A. Harper, **A.D., Kollar**, and D. J. Vater. 2014. *Geology and History of Ironmaking in Western Pennsylvania.* PA*l*S Publication 16, 5.

Number 14. Harper, J. A. 2013. Conquering Allegheny Mountain: The History and Geology of the Allegheny Portage Railroad. PAlS Publication 14, 5.

Number 13. Harper, J. A. 2012. Geology and History of Pennsylvania’s Oil Fields, Venango County, PA. PA*l*S Publication 13, 86.

Number 12. Harper, J. A. 2012. *History and Geology of Pennsylvania Petroleum*. PA*l*S Publication 12, 5.

Number 11. Brezinski, D.K., D. A. Billman, J. H., Harper, and **A.D. Kollar**. 2011. *Geology of the Marcellus Shale*. PA*l*S Publication 11, 5.

Number 00. Brezinski, D.K., and **A.D. Kollar**. 2010. *Geology of North Park*. 5.

Number 10. Kollar, A.D., and D.K. Brezinski. 2010. *Geology, Landscape, and John Kane’s Landscape Paintings*. PA*l*S Publication 10, 5.

Number 09. Brezinski, D.K., **A.D. Kollar**, and E. Edwards. 2010. *Geology of the Montour Trail Milemarker 0.0 to 29.0*. PA*l*S Publication 9, 5.

Number 08. Brezinski, D.K. and A.D. Kollar. 2008. Geology and Fossils of the Tri-State Region Learning/Activities /Coloring Book. PA*l*S Publication 8, 49.

Number 07. Brezinski, D.K., and A.D. Kollar. 2008. PA*l*S *Geology Scavenger Hunt of Carnegie Museum Exhibits*. PA*l*S Publication 7, 5.

Number 06. **Kollar, A.D**., and D.K. Brezinski. 2007. *History of the Section of Invertebrate Paleontology Carnegie Museum of Natural History*. PA*l*S Publication Number 6, 5.

Number 05. Brezinski, D.K., and **A.D. Kollar**. 2006. *The Geology of Riverview Park*. PA*l*S Publication Number 5, 5.

Number 00. Brezinski, D.K., B. Isaac, B., and **A.D. Kollar**. 2005. **The Geology and Botany of Spruce Flats Bog, (Westmoreland and Somerset Counties, Pennsylvania),** 5.

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