

Introduction to Geology, Tectonics, Etc.

<https://www.youtube.com/watch?v=SxWztGhu5-0>

Nick Zentner - Geology 101 (Introduction to [Washington] Geology)

<https://www.nickzentner.com/#/geol-101/>

Nick Zentner

Many people have at least heard of Nick Zentner. I want to provide some context for the following collection of videos. I will refer to him Nick because we have communicated and have some personal connections though we have never met in person..

Nick is a teacher, not a geological researcher. He has an MA, not a PhD. And is very comfortable in his role as a teacher. He is very popular with people interested in geology because (1) he is a good communicator, (2) he freely acknowledges that he doesn't know everything and spends a lot of time just trying to understand and pass along that understanding to non-professionals, (3) he is interested in "big-picture" narratives and connections that many, even most, professional geologists do not go into because the data to support those narratives can be difficult to support by detailed research. That said, he has a growing following of professional geologists that appreciate his approach and questions.

The five links immediately below are popular shows (like "Nick on the Rocks") that are professionally produced or (like the downtown lectures, the from the field, the pop-ups, or from home series), are shorter items that are usually focused on a specific topic or are a summary of one of the longer video series.

Following these are his six "A-Z" series that he began back in COVID times. While these series don't run strictly consecutively in geologic time, they do make sense when seen in order, because they build on each other. Starting with a simple "set", being his back yard with a iPhone perched on a ladder, these series became better and better produced over time. Interviews with professional geologist became more common as he became

more comfortable with the technical setup. Also, the concepts that you learn early on keep coming up and become more refined and understandable over time.

Just be aware that each episode of an A to Z series can last up to 2 hours. So, for just one A to Z series, that's 52 hours of viewing time plus whatever time you spend in addition reading from the dozens of scientific papers that he makes available plus, in more recent series, the numerous related videos that he makes with geologists that support the series.

There is no doubt that it can be a huge time commitment. It is, in my opinion, well worth it. But, a commitment nonetheless.

For anyone looking for some basics on geology, I strongly encourage you to go through the Geology 101 class videos below. They are entertaining and informative. Even when it is focused on Washington State locations specifically, there is much to pick up.

For those interested in the history of geology, at least in the late 19th and early 20th century, the Ice Age Floods series is especially important as there is a tremendous amount of really important historical work done on J. Harlen Bretz, who first proposed the idea of a catastrophic set of floods to explain the Scablands of eastern Washington, the Columbia River Gorge, the Willamette Valley, and much more. With the help of volunteers like us, documents were uncovered that lay hidden in libraries and made available to all, including professional geologists who also benefitted.

<https://www.nickzentner.com/#/pbs-nick-on-the-rocks/>

<https://www.nickzentner.com/#/pop-up-geology/>

<https://www.nickzentner.com/#/downtown-geology-lectures/>

<https://www.nickzentner.com/#/nick-from-the-field/>

<https://www.nickzentner.com/#/nick-from-home/>

Exotic Terranes A-Z (2020)

<https://www.nickzentner.com/#/exotic-terranes-atoz/>

Crazy Eocene A-Z (2021)

<https://www.nickzentner.com/#/crazy-eocene-a-to-z/>

Scientific Papers: <https://www.geology.cwu.edu/facstaff/nick/gEOCENE/>

Baja BC A-Z (2022)

<https://www.nickzentner.com/#/baja-bc-a-to-z/>

Scientific Papers : <https://www.geology.cwu.edu/facstaff/nick/gBAJA/>

Ice Age Floods A-Z (2023)

<https://www.nickzentner.com/#/click-here-to-watch/>

<https://www.nickzentner.com/#/ellensburg-chapter-iafi/> (Ice Age Floods Institute)

Scientific Papers : <https://www.geology.cwu.edu/facstaff/nick/gFLOODS/>

J. Harlen Bretz Papers: <https://www.geology.cwu.edu/facstaff/nick/gBRETZ/>

Cascades A-Z (2024)

<https://www.nickzentner.com/#/cascadesatoz/>

<https://www.nickzentner.com/#/cascades-video-library/>

Scientific Papers: <https://www.geology.cwu.edu/facstaff/nick/gCASCADDES/>

Alaska A-Z (2025)

<https://www.nickzentner.com/#/livestream-series-26-episodes/>

<https://www.nickzentner.com/#/alaskalibrary/>

Scientific Papers: <https://www.geology.cwu.edu/facstaff/nick/gALASKA/>

Geology 101 (Introduction to [Washington] Geology)

<https://www.nickzentner.com/#/geol-101/>

Geology 351 Class

Spring 2021: <https://www.nickzentner.com/#/geol-351/>

Spring 2025: <https://www.nickzentner.com/#/351/>

Scientific Papers: <https://www.geology.cwu.edu/facstaff/nick/g351/>

Shawn Willsey

<https://www.youtube.com/@shawnwillsey/videos>

Geologically Speaking (Southern California Geology, Todd Culbertson)

<https://www.youtube.com/@geologicallyspeaking/videos>

Tectonic Plate Movement Reconstructions

https://www.geology.cwu.edu/facstaff/nick/gBAJA/2020_Clennett_Movie.pdf

<https://www.youtube.com/watch?v=tRQmq3t866w>

<https://www.youtube.com/watch?v=9RUQhJIUwvM>

<https://www.youtube.com/watch?v=0ris0C9ZZvQ>

[youtube.com/watch?v=gQqQhZp4uG8](https://www.youtube.com/watch?v=gQqQhZp4uG8)

<https://www.youtube.com/watch?v=t1hOdm0RJlY>

Tomography (What's going on in the earth's mantle?)

Karin Sigloch

<https://www.youtube.com/watch?v=bbk4G6hB93U>

<https://mediacentral.princeton.edu/media/Department+SeminarA+New+views+on+the+lower+mantle+from+seismic+tomography/1> w5akc6u7/14934241

Spencer Fuston

https://www.youtube.com/watch?v=F_ff8whnb50

Jonny Wu

<https://www.youtube.com/watch?v=D-iz--niXyY>