

Virtual Project on the History of ALD (VPHA): Overview and current status



VPHA, vph-ald.com: Worldwide collaborative effort, in an atmosphere of openness, respect and trust

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VPHA background: Why? What? When?

ALD developed under the names

- Molecular Layering ML; Молекулярное Наслаивание
- Atomic Layer Epitaxy ALE

Especially the work made under the name Molecular Layering has been poorly known and cited

VPHA core activity:

- Volunteered scientists from all around the world work together in an atmosphere of openness, respect and trust, to better understand the early days of ALD.
- We collect, read and comment upon ALD literature up to 1986.

VPHA timeline:

- First announced at [AVS-ALD 2013](#) San Diego
- First presentation at [Baltic ALD 2014](#) Helsinki
- Presentations & tutorial at [ALD 2014](#) Kyoto
- [FinALD40](#) exhibition and [Suntola ALE-ALD essay](#) fall 2014
- VPHA website <http://vph-ald.com> opened fall 2014
- VPHA self-organization summer 2015
- Organizational talks fall 2015 at [ALD Russia](#) and [Baltic ALD](#)
- ALD History Blog <http://aldhistory.blogspot.fi/> Oct 2015
- VPHA to be finalized in 2016

VPHA ALD History publications

Realized (#1 to #8; #11) and planned (#9, #10, #12) publications, as listed in <http://vph-ald.com/Publication%20Plan.html> (Publication Plan v3)

1. Poster at Baltic ALD 2014, [abstract](#)
2. [Poster](#) at ALD 2014, Kyoto
3. [Presentation](#) at ALD 2014, Kyoto
4. [ALD history tutorial](#) at ALD 2014, Kyoto
5. Essay on the early history of ALE-ALD ([CVD journal](#))
6. Website for ALD history and VPHA (vph-ald.com)
7. Exhibition: 40 years of ALD in Finland - Photos, Stories ([FinALD40](#))
8. Essay on the early history of ML-ALD ([CVD journal](#))
9. Poster presentation at ALD 2016, Dublin
10. Optional: general ALD history review article
11. Updating Wikipedia (e.g., [ALD](#), [Suntola](#))
12. (Closing the VPHA at ALD 2016)

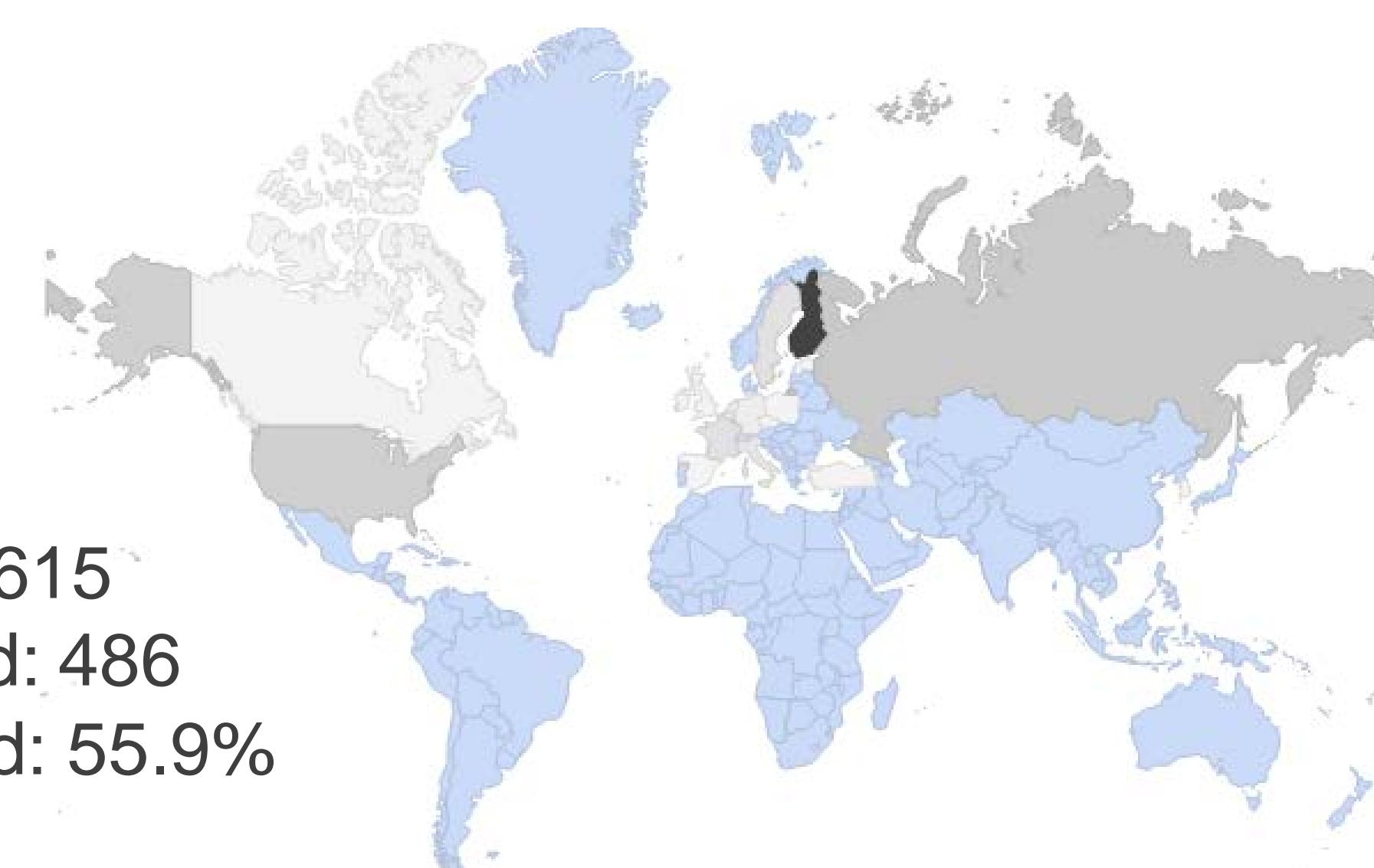
VPHA communication

- **LinkedIn:** Dedicated group "[ALD History](#)" and occasional updates in "[ALD – Atomic Layer Deposition](#)"
- **Twitter:** [#VPHA](#) and [#ALDep](#)
- **Blogs:** [ALD History Blog](#), [BALDengineering](#)
- **HERALD:** [VPHA collaboration](#)
- **Email:** status updates to co-authors and prospective co-authors. Access also through [ALD History Blog](#).

VPHA in numbers (May 16, 2016)

VPHA co-authors:

- 63, from:
- 18 countries and
- 3 continents



- articles listed: 357
- comments given: 615
- comments needed: 486
- Percent completed: 55.9%

VPHA self-organization

Efficient cloud services used for real-time viewing/co-editing.

Access all files through <http://vph-ald.com/VPHAopenfiles.html>

- [ALD-history-evolving-file](#). Core of the VPHA. Contains the Invitation to participate, ALD literature up to 1986, and personal comments on their contents. Made with Google docs; works without registration.
- [VPHA-reading-overview-file](#). Central for VPHA self-organization. Contains article code, languages, title; and organizational notes, reading situation.
- [VPHA-reading-workflow](#). Explains how the reading-overview-file and ALD-history-evolving-file are used together.
- Files for [VPHA voting](#); ALD [theses](#), [reviews](#), [conferences](#)...

More VPHA volunteers still welcome

Understanding the history of ALD requires collaboration of people with different backgrounds. Everyone can contribute. All who have left a comment in [ALD-history-evolving-file](#) by June 15th will be co-authors of the [ALD 2016 presentation](#).

- To get started, browse through the organizational files and start contributing right away - everything is openly available.
- To get the email communication, please send your email address to info@vph-ald.com (email gets forwarded to VPHA organization, currently to Yury Koshtyal, Henrik Pedersen, Riikka Puurunen, Oksana Yurkevich, Jonas Sundqvist).

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