

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

Riikka L. Puurunen,¹ Yury Koshtyal,² Henrik Pedersen,³ J. Ruud van Ommen,⁴ Jonas Sundqvist^{5,6}

¹ VTT Research Centre of Finland Ltd, Espoo, Finland; ² Ioffe Physical Technical Institute, St. Petersburg, Russia; ³ Linköping University, Linköping, Sweden

⁴ Delft University of Technology, Delft, the Netherlands; ⁵ Technische Universität Dresden, Dresden, Germany; ⁶ Lund University, Lund, Sweden

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](#)
- VPHA reading to be completed fall 2015
- VPHA to be finalized 2016

VPHA ALD History publications

Realized (#1 to #7) and planned (#8 to #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. Review article/essay on the early history of ML-ALD
9. Presentation at ALD 2016, Dublin
10. Optional: general ALD history review article
11. Updating Wikipedia
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:** [BALDengineering](#), [aldpulse](#)
- **Email:** periodic status updates to co-authors of the ALD-history-evolving-file and those who have expressed interest in joining VPHA. Shortened versions of the emails are often shared in the LinkedIn ALD History group.

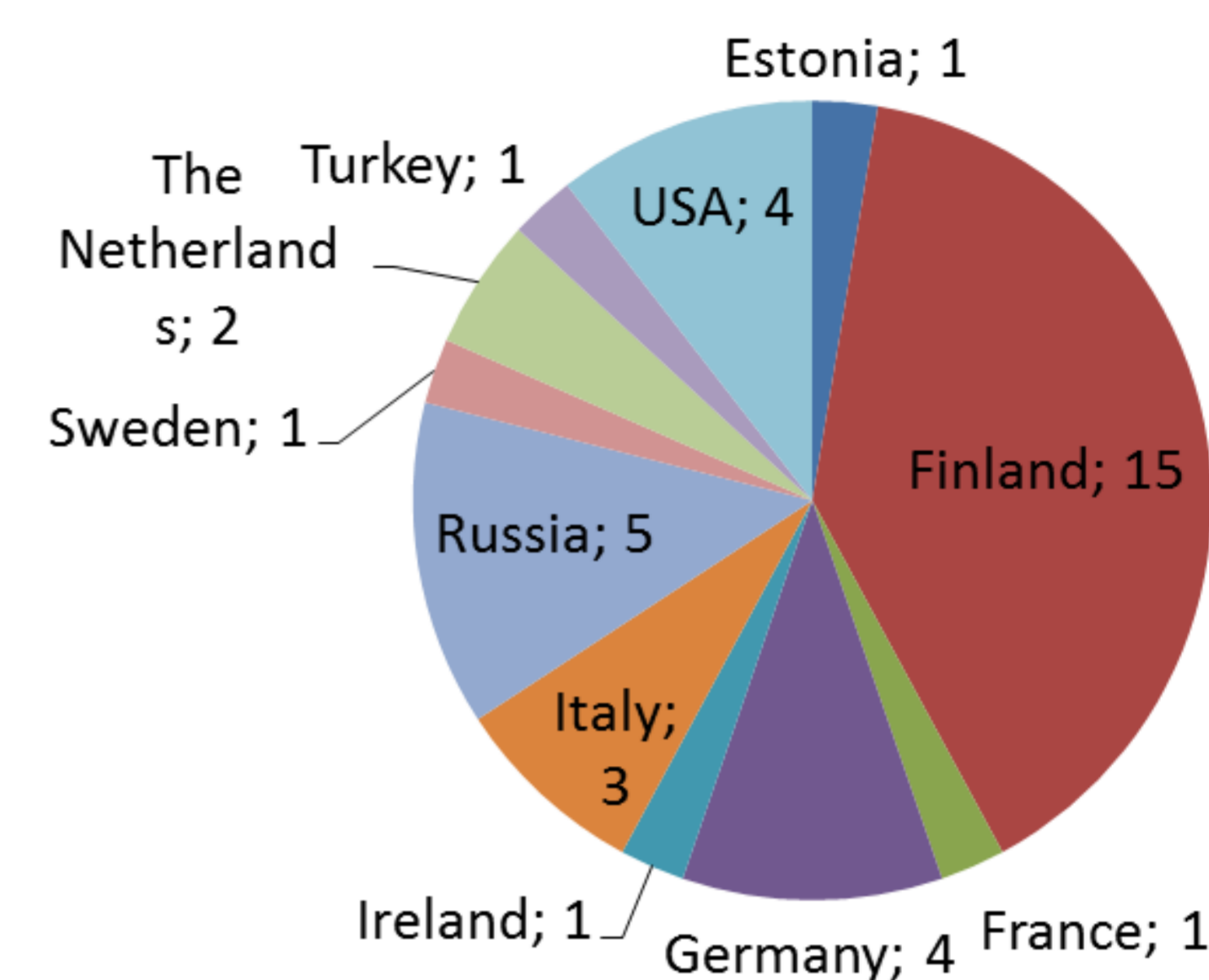
VPHA in numbers

VPHA, as of 21.9.2015:

- articles listed: 347
- comments given: 356
- comments needed: 705

VPHA co-authors:

- 38 from
- 11 countries



VPHA self-organization

<http://vph-ald.com/VPHAopenfiles.html>

The VPHA collaboration is organized through cloud services that enable a simultaneous co-editing and real-time viewing

- **[ALD-history-evolving-file](#).** The core of the VPHA, a large file. Contains the Invitation to participate, ALD literature up to 1986, and personal comments on their contents. Made with Google docs, with real-time viewing, commenting and co-editing (works without registration). Once finalized, this will be a major VPHA outcome.
- **[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.

New voluntary participants welcome & needed

Understanding the history of ALD is a large task that requires collaboration of many people and institutions. Everyone can contribute. VPHA facilitates collaboration. All VPHA participants will be co-authors of presentations.

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

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