



Marrie st. 5, apt. 3
Yerevan, 0079, Armenia
Tel: (+374-10) 61-24-61
Mob Tel: (+374-77) 61-88-43
e-mail: arevik_m@inbox.ru
skype: arevik_m

AREVIK MINASYAN

SUMMARY

Arevik Minasyan has over twelve years of experience in national and international projects on the topic of Aquatic Microbiology. Her area of specialization includes topics on water-quality related (via microbiological parameters such as bacteria, fungi, yeast, as well as phytoplankton with special focus on cyanobacteria) and ecosystem services in the lakes and rivers and the means to remediate and to mitigate the negative effect of the main pollutants to influence the entire ecosystem structure and functioning. She was awarded fellowships to perform scientific projects in the international laboratories from INTAS, DAAD, OEAD, SNSF foundations. In 2009 her application was awarded OKF First Prize. Recently, she became a member of Cyanocost Action ES1105 from Armenia.

EDUCATION

- | | |
|-------------|---|
| 1994 – 1999 | Diploma in Biology and Chemistry (Equivalent to Master of Sciences),
The Yerevan State University, Faculty of Biology, Department of Physiology of Human`s
and Animals |
| 2002 – 2003 | Diploma of specialized post–graduate studies, Department of Natural Products and
Biotechnology, The International Centre for advanced Mediterranean Agronomic Studies,
The Mediterranean Agronomic Institute of Chania (Greece), CIHEAM. |
| 2004 – 2009 | PhD in Aquatic Microbiology, National Academy of Sciences of Republic of Armenia,
Institute of Hydroecology and Ichthyology of the Scientific Centre of Zoology and
Hydroecology; “The eco–microbiological structure of Lake Sevan and its tributaries waters”. |

FULL-TIME EMPLOYMENT

- | | |
|------------------------------|---|
| September 2014 – Present | Senior Scientist at UNESCO Chair in Life Sciences, International Postgraduate
Educational Center, Armenia. |
| January – March 2014 | Expert–biologist, Armenian Harvest Promotion Center “The integrated program of
Trout stocks restoration and Aquaculture development in Lake Sevan”. |
| January 2012 – October 2014 | Senior Scientist at the Informational and Analytical Centre for Food Chain Risk
Assessment, Department of Biochemistry, the Center for Ecological Noosphere
Studies of the National Academy of Sciences of Republic of Armenia. |
| February 2001 – January 2012 | Scientific Researcher at the Institute of Hydroecology and Ichthyology of the
Scientific Centre of Zoology and Hydroecology of the National Academy
of Sciences of Republic of Armenia. |
| January 2000 – January 2001 | Assistant of Program Manager at the European Union Program TACIS “Tourism
training in Armenia”. |

RESEARCH AWARDS AND PRIZES

- First Prize Award of Otto Kinne Foundation (2009)

RESEARCH FELLOWSHIPS AND SCHOLARSHIPS

- | | |
|-----------------------|---|
| August – October 2015 | Research Guest at the University of Cologne, Biozentrum of Cologne.
Prof. Dr. Michael Melkonian “Taxonomic, genetic, and phenotypic diversity of toxic and
nontoxic cyanobacteria in the phytoplankton community of Lake Sevan (Armenia)” |
|-----------------------|---|

July – August 2013	DAAD Re-invitation Fellowship, Germany, Ludwig–Maximilian University of Munich, Department Biology II/Aquatic Ecology. Prof. Dr. Herwig Stibor “Water quality assessment via characterization of algal community, with focus on toxic and nontoxic genera and species and the potential risk of algal toxins occurrence in Lake Yerevan waters”.
October 2012 – January 2013	SNSF, Short–visiting Fellowship, Switzerland, EAWAG, Swiss Federal Institute of Aquatic Science and Technology, Department of Aquatic Ecology. Dr. Francesco Pomati “Modern approaches for rapid and quantitative characterization of cyanobacteria and their toxins in the Yerevan Lake, Armenia”.
June – August 2010	DAAD Re-invitation Fellowship, Germany, UFZ – Helmholtz Centre for Environmental Research, Department of River Ecology. Dr. Bernhard Karrasch “Eco-toxicological risk assessment and ecological carrying capacity of Lake Sevan ecosystem as parameters for the development of concepts for a sustainable water use”
March – May 2010	OKF Award, Germany, UFZ – Helmholtz Centre for Environmental Research, Department of River Ecology. Dr. Bernhard Karrasch “Dynamics of microbial self–cleaning power of Lake Sevan and its main tributaries water”
November 2006 April 2007	OEAD Fellowship, Austria, Institute for Limnology of Austrian National Academy, Laboratory of Microbial Ecology Dr. Martin W Hahn “Comparative Investigation of Important Microbial Components of Lake Sevan, Armenia”
June – October 2005	DAAD Fellowship, Germany, IGB – Leibniz–Institute of Freshwater Ecology and Inland Fisheries Part of the Forschungsverbund Berlin E.V., Department of Limnology of Stratified Lakes Dr. Peter Casper “Microbiological analysis of water, sediments and sedimenting material in stratified lakes in Germany”
August 2004	INTAS Fellowship, Finland, University of Jyvaskyla, Faculty of Mathematics and Sciences, Faculty of Information Technology Summer school “Aquatic Epidemiology”.

RESEARCH PROJECTS AND SCIENTIFIC GRANTS

October 2013 June 2014	Ecologist in “Save Lake Sevan” program of l’Institut Français “Science” (transfer of scientific culture) in cooperation with the Embassy of France in Armenia and KASA (Swiss Humanitarian Foundation).
2009 – 2012	Biologist in “Reform in water resource management” The group – 4/2 B (hydrobiology) “The Lake Sevan basin management, sanitary protection of aquatic ecosystems, flow forming, maintaining the actual size of ecosystem, inalienable and water zones”, Program of the Ministry of Ecology of Republic of Armenia (N ՊԳԳ–ՄԲՄՇՁԲ–09/46).
2001 – 2002	Biologist in the Program of the International Bank “Natural reserve management and decrease of poverty and defence of reservation area management and multibiology”.

RELATIVE SCIENTIFIC EXPERIENCE

May 2012	Summer School on the “Fundamentals of Management and Decision Making”, UNESCO.
October 2009	Seminar on Bio–monitoring – “Water Governance in the Western EECCA Countries” (EuropeAid/125330/C/SER/Multi) – Georgia.
June – July 2004	Summer school “Environmental Management”, OSI Foundation.

MEMBERSHIP

From 2014	Board member of the Armenian Alumni Association of the Deutscher Akademischer Austauschdienst (DAAD)
-----------	--

PUBLICATIONS

- 2015 **Minasyan A.**, Karrasch, B. Relationship between quantitative characteristics of viruses to picocyanobacteria and heterotrophic nanoflagellates in Lake Sevan waters (Armenia). *Electronic Journal of Natural Sciences*, I 2, N 25, pp. 24–29.
- 2012 **Minasyan A.M.**, Hovsepian A.A., Hambaryan L.R., Vardanyan H.S. Dynamics of microbial groups' abundances in Lake Sevan: a comparison of cyanobacterial assemblage to heterotrophic bacteria. *Electronic Journal of Natural Sciences*, I 2, N 19, pp. 38–46.
- 2012 **Minasyan A.M.**, Hambaryan L.R., Khachikyan T.G., Vardanyan H.S. Interaction of saprophytes and cyanobacteria in the Lake Sevan tributaries waters. *Electronic Journal of Natural Sciences*, I 1, N 18, pp. 9–14.
- 2012 Hahn M.W., **Minasyan A.**, Lang E., Koll U., Sproer C. *Polynucleobacter difficilis* sp. nov., a planktonic freshwater bacterium affiliated with subcluster B1 of the genus *Polynucleobacter*. *Int. J. Syst. Evol. Microbiology*; 62: pp. 376–383.
- 2012 Vardanyan H.S., **Minasyan A.M.**, Hovhannisyan R.H., Gulanyan V.G., Navasardyan E.G. Lake Sevan and its tributaries water quality assessment according to microbiological parameters in 2009–2010. *Biological journal of Armenia*, L XIV, N 1, pp. 26–30.
- 2010 Kosolapov D.B., Romanenko A.V., Kopilov A.I., **Minasyan A.M.**, Vardanyan H.S. Quantitative distribution of bacterioplankton within Lake Sevan. *Ecology of Lake Sevan during the period of water level rise. The results of Russian–Armenian Biological expedition for hydroecological survey of Lake Sevan (Armenia) (2005–2009)*, pp. 105–114.
- 2010 **Minasyan A.M.**, Hovhannisyan R. H., Vardanyan H.S., Hambaryan L.R., Ivanyan M. S. The estimation of microbiological group portion in the Lake Sevan tributaries water self-purification process in summer–autumn season 2004 under physical–chemical parameters changes. *Annals of Agrarian Science*, V. 8, N 1, pp. 84–89.
- 2010 **Minasyan A.M.**, Hovhannisyan R. H., Vardanyan H. S. Microbiological water quality of Lake Sevan pelagial in 2006. *Annals of Agrarian Science*, V. 8, N 1, pp. 44–47.
- 2008 **Minasyan A.M.** 2008. The Sevan tributaries water quality according to the microbiological, hydrochemical and hydrophysical parameters. *Proceed. of the Intern. Conference, Yerevan*, p. 37.
- 2007 **Minasyan A.M.**, Vardanyan H.S., Navasardyan E.G. Quantity of saprophytic microorganisms and coli-index in the recreational and pelagic zones of Lake Sevan. *Proceedings of Engineering Academy of Armenia*, V. 4, N 3, Yerevan, pp. 489–491.
- 2006 **Minasyan A.M.** The annual dynamics of the quantitative variation of the saprophytic microorganisms in the tributaries of Lake Sevan during 2002–2005. *Vestnik IAELPS, Sankt–Peterburg*, V. 11, N 8, is. 2, pp. 39–43.
- 2006 **Minasyan A.M.**, Vardanyan H.S., Hovhannisyan R.H. 2006. Quantitative regularity of the yeasts and fungi in Lake Sevan tributaries. *Biological Journal of Armenia*, V. 58, N 3–4, pp. 291–294.
- 2006 **Minasyan A.M.**, Vardanyan H.S., Hovhannisyan R.H. Changes in the composition of saprophytic microflora of tributaries of the Lake Sevan. *Biological journal of Armenia*, V. 58, N 3–4, pp. 285–290.
- 2006 **Minasyan A.M.** The microbiological description of rivers inflowing into Lake Sevan. *Vestnik IAELPS, Sankt–Peterburg*, V. 11, N 8, pp. 49–544.
- 2006 **Minasyan A.M.** Estimation of *E.coli* in the rivers inflowing into Lake Sevan. *Vestnik IAELPS, Sankt–Peterburg*, V. 11, N 8, pp. 46–49.
- 2004 **Minasyan A.M.** 2004. The pollution of the rivers inflowing into Lake Sevan by microbiological parameters. *Biological journal of Armenia*, V. 56, N 3–4, pp. 198–201.
- 2003 Hovhannisyan R., **Minasyan A.** Thinking of basic and applying ecological studies of main directions in Armenia. *Tatev Scientific–Educational complex, Ecological Journal of Armenia*, pp. 77–94.
- 2002 **Minasyan A.M.**, Vardanyan H.S. The microbiological analyses of rivers inflowing into the Lake Sevan. *Materials of the III republican youth scientific conference*, pp. 123–124.

Manuscripts submitted and in review:

1. **Minasyan A.**, Karrasch B. Climate warming and possible feedbacks on carrying capacity of freshwater ecosystems on Lake Sevan example (in review)
2. **Minasyan A.**, Stibor H., Hiskia A., Kaloudis T., Behl S. Cyanobacteria species richness and density and cyanotoxins concentration in the epilimnion of Lake Yerevan (Armenia) (in review)
3. **Minasyan A.**, Stibor H. , Behl S. Annual and seasonal dynamics in quantitative characteristics and species composition of algal flora in Lake Sevan (in preparation)
4. **Minasyan A.**, Karrasch B. Eco-toxicological risk assessment and ecological carrying capacity of Lake Rappbode and River Elbe ecosystems as parameters for the development of concepts for a sustainable water use (in preparation)

COMPUTER LITERACY

- Soft Platforms (Windows 2007, XP, Vista, NT Workstation, Windows NT Server);
- Web-based Management Tools (Internet, Intranet, Outlook);
- Applications (MS Office, Corel Professional, PhotoShop, Adobe Illustrator).

LANGUAGES

Armenian (native), Russian (equivalent to native), fluent in English

REFERENCES

Dr. Martin W Hahn

Institute for Limnology of the Austrian Academy of Sciences, A-5310 Mondsee, Herzog Odilostraße 101 "*derzeit*", Department Ecology and Diversity of Bacteria, Head of Environmental Microbiology Department; tel: +43 6232 3125-29; fax: +43 6232 3578; e-mail: martin.hahn@oeaw.ac.at

Dr. Bernhard Karrasch

UFZ – Helmholtz Centre for Environmental Research, Department of River Ecology, Head of Plankton–Microbiology group, Bruckstrasse 3a, D-39114 Magdeburg, tel: +49 391 810 9620; fax: +49 391 810 9150; e-mail: bernhard.karrasch@ufz.de

Dr. Peter Casper

Leibniz – Institut für Gewässerökologie und Binnenfischerei Abt. Limnologie Geschichteter Seen, Alte Fischerhütte 2, D-16775 Stechlin OT, Neuglobsow; tel: +49 33082-699-29; fax: +49 33082-699-17; e-mail: pc@igb-berlin.de

Prof. Dr. Herwig Stibor

LMU – Ludwig–Maximilian University of Munich, Department Biology II, Aquatic Ecology, Großhaderner Str. 2, D-82152 Martinsried–Planegg, tel: +49 89 2180 74-207, fax: +49 89 2180 74-211, e-mail: stibor@zi.biologie.uni-muenchen.de