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CURRENT POSITION

2008 – present – Associate Professor, Tenured / Extension Entomologist, Dept. of Ecosystem Science and Management, University of Wyoming

EDUCATION

2001 Ph.D. in Entomology, University of Wyoming, Laramie WY, USA.

1980 B.S./M.S. in Entomology at St. Petersburg State University (Russia).”

ACADEMIC EMPLOYMENT

2003-2008 – Assistant Professor / Extension Entomologist, Department of Renewable Resources, University of Wyoming.

2001-2003 – Postdoctoral Research Scientist, Entomology Section, Department of Renewable Resources, University of Wyoming.

1998-2001 – Research Scientist, Entomology Section, Department of Renewable Resources, University of Wyoming.

1998-1999 – Lecturer, Entomology Section, Department of Renewable Resources, University of Wyoming.

1995-1998 – Graduate Teaching Assistant, Entomology Section, Department of Plant, Soil and Insect Sciences, University of Wyoming.

1996-1997 (summer field seasons) - Head of the International Research Group (All-Russian Institute for Plant Protection, Russia; University of Wyoming, USA; International Center of Agronomic Research for Development, France). Subject: Study of population dynamics, ecology and management of acridids in Siberia (Russia).

1993-1995 - Head of the Research Group in Acridology at All-Russian Institute for Plant Protection (VIZR), St. Petersburg, Russia. Subject: IPM methods of grasshopper management, survey and monitoring in the zone of the Lake Baikal (East Siberia).

1992-1993 - Visiting Scientist, International Center of Agronomic Research for Development (CIRAD), Montpellier, France. Subject: Synthesis of bio-ecological data regarding the Desert and Moroccan locusts in the former USSR.

1991-1992 - Head of the Research Team in Acridology at All-Russian Institute for Plant Protection (VIZR). Subject: Grasshopper Integrated Pest Management project in Yakutia (East Siberia) with special emphasis on the development of biological methods of control.

1988-1990 - Senior Research Entomologist at All-Union Institute for Plant Protection (VIZR). Subject: Development of the Integrated Pest Management methods for Migratory locust, Italian locust, and other agricultural pests in the zone of the Aral Sea ecological catastrophe.

1987-1988 - Senior Research Entomologist at All-Union Institute for Plant Protection (VIZR). Subject: Development of new methods of forecasting outbreaks of the Moroccan locust in Central Asia.

1984-1985 - Research Entomologist at All-Union Institute for Plant Protection (VIZR). Subject: Morphometric features as the indicators of the trends in the population dynamics of Migratory and Moroccan locusts.

1980-1983 - Research Entomologist at All-Union Institute for Plant Protection (VIZR). Subject: Biology, ecology and physiology of swarming locusts in Kazakhstan (Migratory locust and Italian locust) and Uzbekistan (Moroccan locust).

1977-1979 Collector, and Laboratory Technician, Chair of Entomology, St. Petersburg (Leningrad) State University.

ACADEMIC AFFILIATIONS

Academic Faculty Affiliate, Dept. of Bioagricultural Sciences and Pest Management, Colorado State University, Ft. Collins, CO

Academic Affiliate, Wyoming GIS Center, University of Wyoming

OTHER EMPLOYMENT

1986-1987 – Lieutenant (Field Artillery) of the Soviet Army

MAIN AREAS OF EXPERTISE AND RESEARCH INTERESTS

- Biology, ecology, population dynamics, and management strategies of grasshoppers and locusts.
- Methods of Integrated Pest Management (IPM) in Western High Plains, including use of biopesticides.
- Biology and ecology of main insect pests of Wyoming, incl. rangeland, horticultural, forest, urban, and crop pests.
- Geographic Information Sciences (GIS) and Remote Sensing applications in insect ecology and pest management.
- Environmental impact of pest management programs, including the influence on non-target terrestrial arthropods.
- Diapause, migrations and other adaptations in insect life strategies.
- Phase variation in locusts.
- Conservation of rare and endangered Orthoptera species.
- History of entomology.
- International aspects of pest management.

PUBLICATIONS**Article in review:**

Babah Ebbe, Mohamed Abdallahi, Latchininsky, Alexandre et al., 20xx. Zones of high and low frequencies of the Desert locust (*Schistocerca gregaria* Forskal) in Mauritania: a remote sensing perspective. *Journal of Applied Remote Sensing*, Special issue on Locusts and Remote Sensing.

1. Peer-reviewed articles: 37

1. Gapparov F.A., Belkharoev Kh.M., Govorov D.N., Zhivykh A.V. & Latchininsky A.V., 2014. Locusts should be the focus of attention. *Plant Protection and Quarantine*, 1: 51-52 (in Russian).
2. Latchininsky A.V., 2013. Locusts and Remote Sensing – a Review, *Journal of Applied Remote Sensing*, Vol. 7, special section on Locusts and Remote Sensing, 32 pp.
3. Gapparov F.A., Govorov D.N., Zhivykh A.V. & Latchininsky A.V., 2013. International technical workshop on locust control. *Plant Protection and Quarantine*, 1: 50-52 (in Russian).
4. Bitsadze N., Jaronski S., Latchininsky A., et al., 2013. Joint action of *Beauveria bassiana* and the insect growth regulators diflubenzuron and novaluron, on the migratory locust, *Locusta migratoria*. *Journal of Pest Science*, doi 10.1007/s10340-012-0476-4
5. Gapparov F.A., Latchininsky A.V. & Nurjanov A.A., 2012. Anthropogenic disturbances in the ecosystem near the Aral Sea and changes in Acridoidea species complex, *Applied Entomology III* (2): 40-48 (in Russian with English summary).
6. Latchininsky A.V., Sword G., Sergeev M.G., Cigliano M.M., & Lecoq M., 2011. Locusts and grasshoppers: Behavior, Ecology, and Biogeography. – *Psyche* Special Issue editorial article doi:10.1155/2011/578327
7. Latchininsky A.V., Gapparov F.A. & Utafov N., 2011. Improvements in anti-locust treatments: ULV or full volume spraying? *Plant Protection and Quarantine*, 11: 5-10 (in Russian).
8. Gapparov F.A., Govorov D.N. & Latchininsky A.V., 2011. International cooperation in locust control in Central Asia and Caucasus. – *Plant Protection and Quarantine* 2: 67-68 (in Russian)
9. Malko A.M., Govorov D.N., & Latchininsky A.V., 2011. Plant protection from pest grasshoppers in the USA. *Plant Protection and Quarantine* 11: 16-18 (in Russian).
10. VanDyke K.A., Latchininsky A.V. & Schell S.P., 2009. Importance of ecological scale in montane grasshopper (Orthoptera: Acrididae) species structure in similar habitat between differing soil textures and dominant vegetative canopy coverage. – *Journal of Orthoptera Research* 18(2): 215-223
11. Sivanpillai R. & Latchininsky A.V., 2008. Can late summer Landsat data be useful for locating Asian migratory locust, *Locusta migratoria migratoria*, oviposition sites in the Amudarya River delta, Uzbekistan? – *Entomologia Experimentalis et Applicata* 128:346-353.
12. Latchininsky A.V., 2008. Grasshopper outbreak challenges conservation status of a small Hawaiian Island. – *Journal of Insect Conservation* 12: 343-357.

13. Lockwood J.A. & Latchininsky A.V., 2008. Philosophical justification for the extirpation of non-indigenous species: the case of the grasshopper *Schistocerca nitens* (Orthoptera) on the Island of Nihoa, Hawaii. – *Journal of Insect Conservation* 12: 429-445
14. Gapparov F.A., Latchininsky A.V. & Sergeev M.G., 2008. Outbreaks of the Moroccan locust in Central Asia. *Plant Protection and Quarantine* 3: 14-18 (in Russian).
15. Sergeev M.G. & Latchininsky A.V., 2007. World locust outlook. *Plant Protection & Quarantine* 11: 24-29 (in Russian).
17. Latchininsky, A.V., Sivanpillai, R., Driese, K.L., Wilps, H., 2007. Can early season Landsat image improve locust habitat monitoring in the Amudarya River Delta, Uzbekistan? – *Journal of Orthoptera Research* 16:167-173.
18. Sivanpillai, R., Latchininsky, A.V., 2007. Mapping locust habitats in the Amudarya River Delta, Uzbekistan with multi-temporal MODIS imagery. *Environmental Management* 39:876-886.
19. Latchininsky A.V. & Gapparov F.A., 2007. Locust control in Central Asia: MIGs versus Micronairs. *Outlooks on Pest Management* 18(3): 100-104.
20. Latchininsky A.V., Schell S.P. & Lockwood J.A., 2007. Laboratory bioassays of vegetable oils as kairomonal phagostimulants for grasshoppers (Orthoptera, Acrididae). – *Journal of Chemical Ecology* 33(10): 1856-1866.
21. Sivanpillai R., Latchininsky A.V., Driese K.L., & Kambulin V.E., 2006. Mapping locust habitats in River Ili Delta, Kazakhstan, Using Landsat Imagery. – *Agriculture, Ecosystems & Environment* 117: 128-134.
22. Latchininsky A.V. & VanDyke K.A., 2006. Grasshopper and Locust Control with Poisoned Baits: A Renaissance of the Old Strategy? – *Outlooks on Pest Management* 17(3): 105-111.
23. Smith D.I., Lockwood J.A., Latchininsky A.V., & Legg D.E., 2006. Changes in non-target arthropod populations following application of liquid bait formulations of insecticides for control of rangeland grasshoppers. – *International Journal of Pest Management* 52(2): 125-139.
24. Zimmerman K.M., Lockwood J.A., & Latchininsky A.V., 2004. A Spatial, Markovian Model of Rangeland Grasshopper (Orthoptera, Acrididae) Population Dynamics: Do Long-Term Benefits Justify Suppression of Infestations? – *Environmental Entomology* 33(2): 257-266.
25. Latchininsky A.V., Sergeev M.G. & Lockwood J.A., 2002. The pest acridids: whose fault is this, and what to do? – *Agroecologicheskij Vestnik (Agroecology Bulletin)* 2-3: 20-25 (in Russian).
26. Sergeev M.G., Latchininsky A.V. & Duranton J.-F., 2002. Perspectives of the use of the insecticide Adonis® in Siberia. - *Plant Protection & Quarantine* 3: 19-20 (in Russian).
27. Lockwood J.A., Showler A.T. & Latchininsky A.V., 2001. Can we make locust and grasshopper management sustainable? – *Journal of Orthoptera Research* 10(2): 315-329.
28. Lockwood J.A., Latchininsky A.V. & Sergeev M.G., 2000. New strategy of rangeland grasshopper control. - *Plant Protection & Quarantine* 7: 10-11 (in Russian).
29. Latchininsky A.V., Lockwood J.A. & Sergeev M.G., 2000. Grasshoppers in the prairies of North America. – *Steppic Bulletin* 6: 23-25 (in Russian).
30. Latchininsky A.V., 2000. Grasshopper control: New products and strategies. - *Plant Protection & Quarantine* 4: 9-11 (in Russian).
31. Latchininsky A.V., Lockwood J.A. & Sergeev M.G., 2000. Comparative analysis of rangeland grasshopper management in the USA and Russia. - *Plant Protection & Quarantine* 8: 12-14 (in Russian).
32. Latchininsky A.V., 1998. Moroccan locust *Docostaurus maroccanus* (Thunberg, 1815): a faunistic rarity or an important economic pest? – *Journal of Insect Conservation* 2-3: 167-178.
33. Latchininsky A.V. & Gapparov F.A. 1996. Les conséquences du dessèchement de la mer d’Aral sur la situation acridienne dans la région. *Sécheresse* 7(2): 109-113 (in French).
34. Latchininsky A.V., 1995. Grasshopper problem in Yacutia (Eastern Siberia, Russia) grasslands. – *Journal of Orthoptera Research* 4: 29-34.
35. Issl I.V., Latchininsky A.V. & Gogolev A.N., 1993. Recommendations on the screening of microbiological agents and their testing on anti-locust activity. - Russian Academy of Agricultural Sciences (Moscow): 21 p. (in Russian).
36. Nourzhanov A.A. & Latchininsky A.V., 1987. Pathogenic microorganisms of gregarious locusts in Uzbekistan. - In: SHUMAKOV E.M. (Ed.) - Locusts - Ecology and Control Methods. - *Trudy VIZR* (Leningrad): 62-69

(in Russian with English summary).

37. Kurdiukov V.V., Latchininsky A.V. & Naumovich O.N., 1983. Utilization of organophosphate insecticides by means of ULV against injurious locusts in the different zones of their range. - *Bulletin of VIZR*, 56: 21-26 (in Russian with English summary).

2. Peer-reviewed book chapters: 9 (*indicates invited)

1. *Latchininsky A.V., Sivanpillai R. & Gapparov F.A., 2013. *Mapping changes in the water bodies and vegetated areas of the Amudarya River Delta, Uzbekistan using Landsat data*. Pp. 517-526 in: M.-F. Courel, T. Tashpulat and M. Taleghani (eds.), WATARID3: Usages et Politiques de l'Eau en zones arides et semi-arides. – Paris: Editions Hermann.
2. *Latchininsky A.V. & Sivanpillai R., 2010. *Locust habitat monitoring and risk assessment using remote sensing and GIS technologies*. Pp. 161-186 in: A. Ciancio & K.G. Mukerji (eds.), Integrated Management of Arthropod Pests and Insect Borne Diseases. – Dordrecht-Heidelberg-London-New York: Springer.
3. *Latchininsky A.V., 2010. *Locusts*. In: Breed M.D. and Moore J. (eds.), Encyclopedia of Animal Behavior, volume 2, pp. 288-297 Oxford: Academic Press.
4. Latchininsky A.V., 2008. *Grasshopper outbreak challenges conservation status of a small Hawaiian Island*. Pp. 149-163 in: T.R. New (ed.) Insect Conservation and Islands, Dordrecht: Springer.
5. Lockwood J.A. & Latchininsky A.V., 2008. *Philosophical justification for the extirpation of non-indigenous species: the case of the grasshopper Schistocerca nitens (Orthoptera) on the Island of Nihoa, Hawaii*. Pp. 235-251 in: T.R. New (ed.) Insect Conservation and Islands, Dordrecht: Springer.
6. Gapparov F.A. & Latchininsky A.V., 2000. What are the consequences of ecosystem disruption on acridid diversity and abundance? – pp. 31-59 in: Lockwood J., Latchininsky A. & Sergeev M. (Eds.) Grasshoppers and Grassland Health. – Kluwer Academic Publishers (Dordrecht / Boston / London).
7. Lockwood J.A. & Latchininsky A.V., 2000. - The risks of grasshoppers and pest management to grassland agroecosystems: An international perspective on human well-being and environmental health. – pp. 193-215 in: Lockwood J., Latchininsky A. & Sergeev M. (Eds.) Grasshoppers and Grassland Health, Kluwer Academic Publishers (Dordrecht / Boston / London).
8. Lockwood J.A., Latchininsky A.V. & Sergeev M.G., 2000. - A novel approach to solving complex ecological problems: The risks of grasshoppers and pest management to grassland agroecosystems. An international polylogue on the art and science of applied acridology. – pp. 1-6 in: Lockwood J., Latchininsky A. & Sergeev M. (Eds.) Grasshoppers and Grassland Health, Kluwer Academic Publishers (Dordrecht / Boston / London).
9. Latchininsky A.V., 1997. - Grasshopper control in Siberia: strategies and perspectives. - In: Krall S., Peveling R. & Ba Daouille Diallo (Eds.). *New Strategies in Locust Control*. - Birkhauser Publishing Ltd. (Basel): 493-502.

3. Books and monographs: 6

Submitted to peer-review (2):

Latchininsky A.V. et al., 20xx. Moroccan locust *Dociostaurus maroccanus* (Thunberg, 1815): biology, ecology and management. FAO UN, 305 pp.

Sergeev M.G., Latchininsky A.V. et al., 20xx. Italian locust *Calliptamus italicus* (Linnaeus, 1759): biology, ecology and management. FAO UN, 323 pp.

1. Schell S.P., Latchininsky A.V. & Shambaugh B., 2012. *Field Guide to Common Wyoming Pest Grasshoppers*. UW-CES Bulletin B-1161 (5th revised edition).
2. Gapparov F.A., Latchininsky A.V., Khudanov S.K., Peveling R., Khajtmuratov A.F., Isakov O., Krull S., Utapov N., Khamraev I.A., & Tufliiev N.H., 2009. *Locust and grasshopper pests in Uzbekistan*. UzNIIZR – GTZ, Tashkent (in Uzbek).
3. Latchininsky A.V., Sergeev M.G., Childebaev M.K., Chernyakhovskiy M.E., Lockwood J.A., Kambulin V.E., & Gapparov F.A., 2002. *Acridids of Kazakhstan, Central Asia and adjacent territories*. VII + 387 pp. Association for Applied Acridology International, University of Wyoming, Laramie, WY (in Russian).
4. Lockwood J.A., Latchininsky A.V. & Sergeev M.G. (Eds.), 2000. *Grasshoppers and Grassland Health*.

- Managing Grasshopper Outbreaks without Risking Environmental Disaster*, Kluwer Academic Publishers (NATO Science Series), Dordrecht / Boston / London – X + 221 pp.
5. Latchininsky A.V. & Launois-Luong M.H., 1997. *Le Criquet pèlerin*, *Schistocerca gregaria* (Forskål, 1775), dans la partie nord orientale de son aire de l'invasion. XVIII + 192 pp. - CIRAD-GERDAT-PRIFAS: Montpellier, France / VIZR: St Petersburg, Russia (in French).
6. Latchininsky A.V. & Launois-Luong M.H., 1992. – *Le Criquet marocain*, *Dociostaurus maroccanus* (Thunberg, 1815), dans la partie orientale de son aire de distribution. *Etude monographique relative à l'ex-URSS et aux pays proches*. XIX + 270 pp. - CIRAD-GERDAT-PRIFAS: Montpellier, France / VIZR: St Petersburg, Russia (in French).

4. Course and Textbooks: 24 (representative selection)

- Latchininsky A.V., 2014. *Insects for Teachers: Collection and Identification of Insects (ENTO 5601) Course Packet*. – University of Wyoming, 38 pp.
- Latchininsky A.V. & Schell S.P., 2014. *Entomology Short Course Packet*. – U. of Wyoming Extension, 52 pp.
- Latchininsky A.V. & Schell S.P., 2013. *Entomology Short Course Packet*. – U. of Wyoming Extension, 46 pp.
- Latchininsky A.V. & Schell S.P., 2012. *Entomology Short Course Packet*. – U. of Wyoming Extension, 67 pp.
- Latchininsky A.V. & Schell S.P., 2011. *Entomology Short Course Packet*. – U. of Wyoming Extension, 79 pp.
- Latchininsky A.V., 2011. *Insects for Teachers: Collection and Identification of Insects (ENTO 5601) Course Packet*. – University of Wyoming, 49 pp.
- Latchininsky A.V. & Schell S.P., 2010. *Grasshopper Train-the-Trainers IPM Workshop packets (for WY, MT, SD, ND, NM, OR, WA, NE, and CO)*. – University of Wyoming / Cooperative Extension Service, 120 pp.
- Latchininsky A.V. & Schell S.P., 2009. *Entomology Short Course for Weed and Pest Specialists Course Packet*. – University of Wyoming / Cooperative Extension Service, 88 pp.
- Latchininsky A.V., 2008. *Insects for Teachers: Collection and Identification of Insects (ENTO 5601) Course Packet*. – University of Wyoming, 56 pp.
- Sergeev M.E., Latchininsky A.V., Lockwood J.A., Vanjkova I.A., Denisova O.I., 2002. *Locusts and Grasshoppers. Distribution, Ecology, Population Management*. – Novosibirsk State University, Novosibirsk, 103 pp. (In Russian)
- Lockwood J.A. & Latchininsky A.V., 2002. – *International Issues in IPM (ENTO 5689) Course Packet*. – University of Wyoming, 250 pp.
- Lockwood J.A. & Latchininsky A.V., 1998. – *The Biodiversity Crisis (ENTO 1100) Lab Packet*. – University of Wyoming, 90 pp.

5. Extension, outreach and popular publications: 131 (representative selection)

- Latchininsky A.V. & Schell S.P., 2014. Cicadas: Wyoming's summer songsters. – *Western Confluence*, 1: 28.
- Connett J.F., A.V. Latchininsky & Schell S.P., 2014a. Wyoming IPM. Standard Operating Procedure for mice in schools and other facilities. UW Extension Bulletin B-1259.
- Connett J.F., A.V. Latchininsky & Schell S.P., 2014b. Wyoming weed control in turf and ornamentals. A comprehensive IPM approach for commercial, residential and schools. UW Extension Bulletin B-1257.
- Lockwood J.A., McNary T.J., Larsen J.C., Zimmerman K., Shambaugh B., Latchininsky A.V., Herring, B. & Legg, C., 2013. Distribution Atlas for Grasshoppers and Mormon Crickets in Wyoming, 1987-2012 (revised). UW-USDA-APHIS-PPQ, Wyoming CAPS: 121 pp.
- Latchininsky A.V. & Schell S.P., 2013. Rangeland grasshoppers: more damaging in drought. *Wyoming Livestock Roundup* Vol. 25(2), pp. 8-9, 18 May 2013.
- Rashford B., Latchininsky A. & Ritten J., 2013. Toward a more comprehensive valuation of western rangelands. UW Extension Bulletin B-1245.
- Latchininsky A.V., 2013. The Wonderful World of Orthoptera. The Orthopterists' Society 2014 Calendar.
- Latchininsky, Alexandre, Furkat Gapparov and Allabergen Nurjanov 2011. Locust control in Central Asia: Current trends. *Metaleptea*, Orthopterists Society Newsletter Vol. 31(2): 6-8.
- Navratil P., Wilps H., Peveling R., Latchininsky A. et al., 2010. The Aral Sea Disaster: from crisis-dwelling to problem-solving. *GTZ, Tashkent* (in Russian and English).
- Schell S.P. & Latchininsky A.V., 2010. *Grasshopper Management Aid*. UW-CES Bulletin MP-123.

- Latchininsky A.V., 2007-2008. *Landscaping tips* (statewide distribution).
- Schell S. & Latchininsky A.V., 2008. The Buzz on West Nile Virus. Do Mosquitoes Have Distinctive Signatures? UW College of Agriculture *Reflections*: 20-22.
- Lockwood J. & Latchininsky A.V., 2008. Confessions of an entomological hit man. *Conservation Magazine* 9(3): 14-19.
- Latchininsky A.V., 2008. *Grasshopper Control with RAATs*. Wyoming Livestock Roundup.
- Gilchrist T. & Latchininsky A.V., 2008. Great Sand Dunes yields wonders within. UW College of Agriculture *Reflections*: 29-32.
- Latchininsky A.V. & Schell S.P., 2008. *Mormon Cricket: Biology and Management*. UW-CES Bulletin B-1191.
- Charbonnier G., Launois M., Balenghien T., Camus E., Lancelot R., Pastoret P.-P., Latchininsky A.V. et al., 2008. La Fievre Catarrhale Ovine. CIRAD, Collection "Les Savoirs Partages," 85 pp. (in French).
- Latchininsky A.V. & Schell S.P., 2007. New Mexico Grasshopper Management Workshop Handbook. UW/USDA-APHIS.
- Latchininsky A.V. & Schell S.P., 2007. Nebraska Grasshopper Management Workshop Handbook. UW/USDA-APHIS.
- Latchininsky A.V. & Schell S.P., 2007. Oregon Grasshopper Management Workshop Handbook. UW/USDA-APHIS.
- Latchininsky A.V., 2007. Perfect mothers can be a nuisance in Wyoming gardens. Landscaping column for statewide distribution (revised).
- Latchininsky A.V., 2007. No pests year-round with systemic treatments. Landscaping column for statewide distribution (revised).
- Schell S.P. & Latchininsky A.V., 2007. Western tent caterpillars. *Laramie Boomerang daily newspaper*.
- Schell S.P. & Latchininsky A.V., 2007. Good-bye, flies. *Backyards & Barnyards UW magazine*.
- Latchininsky A.V., 2007. Black Vine Weevil and other root weevils in the Rocky Mountain states. *Tree Leaves, A Newsletter of the International Society of Arboriculture*, Rocky Mountain Chapter, Vol. 33(1).
- Latchininsky A.V. & Schell S.P., 2007. *Aerial RAATs brochure*. UW CES Bulletin MP-95 (revised).
- Latchininsky A.V. & Schell S.P., 2007. *ATV-RAATs brochure*. UW CES Bulletin MP-95 (revised).
- Latchininsky A.V., Sivanpillai R. & Wilps H., 2007. Eye in sky peering at Central Asian habitat helps UW researchers ease locust monitoring. UW College of Agriculture *Reflections* 2007: 26-29.
- Latchininsky A.V., Sivanpillai R., Wilps H. & Gapparov F.A., 2007. Satellite imagery helps to monitor locust habitats in Central Asia. *Metaleptea* Vol. 27(1): 11-12.
- Latchininsky A.V., 2006. White Satin Moth: A New Pest of Deciduous Trees in Wyoming. *Tree Leaves, A Newsletter of the International Society of Arboriculture*, Rocky Mountain Chapter, Vol. 32 (1), pp. 1 & 12-13.
- Latchininsky A.V. & Schell S.P., 2006. *Black Vine Weevil and Other Root Weevils in Wyoming Gardens*. UW CES Bulletin B-1176.
- Latchininsky A.V. & Schell S.P., 2006. *Grasshoppers in the West: Identification and Management*. Poster. UW CES Bulletin B-1171.
- Latchininsky A.V. & Schell S.P., 2006. North Dakota Grasshopper Management Workshop Handbook. UW/USDA-APHIS.
- Latchininsky A.V. & Schell S.P., 2006. New Mexico Grasshopper Management Workshop Handbook. UW/USDA-APHIS.
- Latchininsky A.V., 2006. Perfect Mothers Can Be a Nuisance. Landscaping column for statewide distribution.
- Latchininsky A.V., 2006. No Pests Year-Round. Landscaping column for statewide distribution.
- Latchininsky A.V., 2006. Yard and Garden over-the-counter insecticide survey, summer 2006 (Distributed electronically).
- Latchininsky A.V., 2006. Diazinon replacement insecticide products for ant control (Distributed electronically).
- Dean D. & Latchininsky A., 2005. The Mountain Pine Beetle: Preeminent Forest Pest of the West. *Reflections* (University of Wyoming) 2005: 3-6 (Award: \$1,000).
- Logue J., Schell S.P., & Latchininsky A.V., 2005. *Arachnids*. A Chapter in Wyoming Master Gardener Manual.
- Latchininsky A.V., 2005. Yard and Garden over-the-counter insecticide survey, summer 2005 (Distributed electronically).

- Latchininsky A.V., 2005a. Desert locust biology and ecology. Training Materials for the FAO UN (in French).
- Latchininsky A.V., 2005b. Desert locust control campaign organization and execution. Training Materials for the FAO UN (in French).
- Latchininsky A.V., 2005c. Environmental and Human Health in Desert locust control. Training Materials for the FAO UN (in French).
- Latchininsky A.V. & Schell S.P 2005. Colorado Grasshopper Management Workshop Handbook. UW/USDA-APHIS.
- Latchininsky A.V. & Schell S.P 2005. Montana Grasshopper Management Workshop Handbook. UW/USDA-APHIS.
- Latchininsky A.V. & Lockwood J.A., 2004. Wyoming expertise in grasshopper management shared internationally. *Reflections (UW)*, June 2004, pp. 54-55.
- Latchininsky A.V., 2004. Over-the-counter insecticide survey, summer 2004 (Distributed electronically via ShortHort Notes© by Karen Panter).
- Latchininsky A.V., 2004. Diazinon replacement insecticides (Distributed electronically).
- Latchininsky A.V. & Schell S.P 2005. Nebraska Grasshopper Management Workshop Handbook. UW/USDA-APHIS.
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- Latchininsky A.V., 1994. Moroccan locust *Doclostaurus maroccanus* (Thunberg, 1815) (Orthoptera: Acrididae): A faunistic rarity or an important pest? - In: 5th European Congress of Entomology, University of York, 29 August-2 September 1994; Abstracts, p. 283.

8. Technical Reports: 52 (representative selection 2007-2014)

- Latchininsky A.V., 2014. Biological Control of Rangeland Grasshoppers in Wyoming: Insights from Russia. Report to "Global Perspectives," College of Agriculture and Natural Resources, 9 pp.
- Latchininsky A.V., 2014. Training on locust monitoring and information management, Nukus, Uzbekistan, 11-15 August 2014; Assessment of the Asian Migratory Locust situation in the Aral Sea area, Karakalpakstan, Uzbekistan, 16-23 August 2014; Participation in the Working Group on Biohazards of the Inter-Parliamentary Assembly (IPA) of countries-members of Commonwealth of Independent States (CIS), St Petersburg, Russia, 26-27 August 2014. Report to FAO UN, 60 pp.
- Latchininsky A.V., 2014. Technical support at FAO Headquarters in Rome, Italy in the framework of emergency response to locust crisis in Madagascar OSRO/MAG/307/NOR (February-April 2014). Mission Report to FAO UN, 43 pp.
- Latchininsky A.V., 2013. Mission to Uzbekistan in the framework of FAO TCP/UZB/3401, April-May 2013. Report to FAO UN, 40 pp.
- Latchininsky A.V., 2013. Mission to Russian Federation in the framework of FAO GCP/INT/134/USA, April-May 2013. Report to FAO UN, 25 pp.
- Latchininsky A.V., 2012. Remote Sensing Applications to Grasshopper Monitoring in Argentina. Report to "Global Perspectives," College of Agriculture and Natural Resources, 13 pp.
- Latchininsky A.V., 2012. Mission to Kyrgyzstan in the framework of FAO TCP/KYR/3305, April 2012. Report to FAO UN, 43 pp.
- Latchininsky A.V. and Sivanpillai R., 2012. Remote Sensing applications to pest monitoring in Northern Great Plains and Central Asia. Report to Upper Midwest Aerospace Consortium, 13 pp.
- Latchininsky A.V., 2011. Activities in the Framework of the Project TCP/INT/3202(D), August 2010 – January 2011. Final Report to FAO UN, 25 pp.
- Latchininsky A.V. & Sivanpillai R., 2010. Remote Sensing and Spatial Analyses of Rangeland Insect Pest Outbreaks in Wyoming. Report to Upper Midwest Aerospace Consortium, 8 pp.
- Latchininsky A.V., 2010. Russian Bibliography on Orthopteroid Insects. FAO UN, 286 pp., available at http://www.fao.org/ag/locusts-CCA/common/ecg/1028/en/BIBLIO_ENG.pdf
- Latchininsky A.V., 2010. Report on Assistance Provided to Uzbekistan 11-25 August, 2010. FAO UN, 67 pp., available at <http://www.fao.org/ag/locusts-CCA/en/1014/index.html>
- Monard A., Chiris M. & Latchininsky A.V., 2009. Locust Situations and Management in Caucasus and Central Asia: Analytical Report. FAO UN, 84 pp., available at http://www.fao.org/ag/locusts-CCA/common/ecg/1084/en/Analytical_Report-_Locusts_in_CCA.pdf
- Nyambo B. & Latchininsky A.V., 2009. Evaluation of the Central Emergency Relief Fund of the United Nations

(CERF): Tanzania Case Study: Red Locusts. Project OSRO/RAF/909/CHA. Report to FAO-PBEE, 40 pp., available <http://ochaonline.un.org/cerf/WhatistheCERF/EvaluationsandReviews/tabid/5340/language/en-US/Default.aspx>

Sivanpillai R. & Latchininsky A.V., 2008. Mapping Land Cover Associated with Moroccan Locust Habitats in Southeast Qarshi Rregion, Uzbekistan. Report to GTZ-Tashkent, 13 pp.

Latchininsky A.V., 2007. Report of the expedition to Nihoa Island with particular attention to grasshopper *Schistocerca nitens*. October 11-22, 2006. Report to US Fish & Wildlife Service, 48 pp.

9. Dissertation

Latchininsky A.V., 2001. *Environmental Factors Governing Population Dynamics of Rangeland Grasshoppers: The First Application of GIS and Remote Sensing to Acridology in Russia*. Ph.D. Dissertation, University of Wyoming, XVIII + 250 pp., 58 tables, 29 figures, 2 Appendices.

10. Thesis

Latchininsky A.V., 1980. *Comparative Characteristics of the Photoperiodic Reaction in Three Species of Lepidoptera*. M.S. Thesis, St. Petersburg State University, Russia, 44 pp. (in Russian).

GRANTS AND CONTRACTS

Total Funded Share of A. Latchininsky at UWyo (2003-2012): **US \$2,838,744**

Previously funded in 1990-2002: \$285,216. **Total: \$3,123,960**

2014 PENDING PRE-PROPOSAL: 1 (\$4,800,000)

National Science Foundation, Partnerships in International Research and Education (NSF-PIRE) Program

1. PIRE: Know Your Ancient Agricultural Enemy: Novel and integrative approaches to prevent locust outbreaks in Central Asia and Russia (PI) - \$4,800,000

2014 FUNDED PROPOSALS: 5 (\$262,46)

USDA-APHIS-PPQ Funding:

1. Wyoming Cooperative Agricultural Pest Survey infrastructure and bundled small grain survey (non-competitive funding) (PI) - \$111,519
2. Potato cyst nematode survey (PI) - \$3,357

USDA-NIFA Funding:

3. Crop Protection and Pest Management Competitive Grants Program; Extension Implementation Program (Co-PI); Total \$501,492; A. Latchininsky's share - \$125,000

Wyoming Department of Agriculture Funding:

4. Travel support for the mosquito larval control workshop and West Nile Virus prevention training (Co-PI); Total: \$5,200; A. Latchininsky's share - \$2,600
5. School IPM Implementation in Wyoming (Co-PI); Total: \$45,830; A. Latchininsky's share - \$20,000

2013 FUNDED PROPOSALS: 3 (\$282,950)

USDA-APHIS-PPQ Funding:

1. Wyoming Cooperative Agricultural Pest Survey infrastructure and bundled small grain survey (non-competitive funding) (PI) - \$170,050

USDA-ARS-IR-4 Funding:

2. Field evaluation of *Metarhizium anisopliae* F52 strain against grasshoppers in natural habitats (PI) - \$7,900

USDA-NIFA Funding:

3. Extension IPM outreach, coordination and support funds (Co-PI); Total \$353,237; A. Latchininsky's share - \$105,000

2012 FUNDED PROPOSALS: 4 (\$263,185)

USDA-APHIS-PPQ Funding:

1. Wyoming Cooperative Agricultural Pest Survey infrastructure and bundled small grain survey (non-competitive funding) (PI) - \$121,454
2. A comprehensive report summarizing the findings of the economic analysis of the multiple uses of western rangelands, on a state-by-state basis (PI) - \$54,181

USDA-NIFA Funding:

3. Extension IPM outreach, coordination and support funds (Co-PI); Total \$264,010; A. Latchininsky's share - \$85,000

Wyoming Department of Agriculture Funding:

4. Travel support for the mosquito larval control workshop and West Nile Virus prevention training (Co-PI); Total: \$5,100; A. Latchininsky's share - \$2,550

2011 FUNDED PROPOSALS: 3 (\$245,983)**USDA-APHIS-PPQ Funding:**

1. Wyoming Cooperative Agricultural Pest Survey infrastructure and bundled small grain survey (non-competitive funding) (PI) - \$153,883

USDA-ARS-IR-4 Funding:

2. Field evaluation of *Metarhizium anisopliae* F52 strain against grasshoppers in natural habitats (PI) - \$7,100

USDA-NIFA Funding:

3. Extension IPM outreach, coordination and support funds (Co-PI); Total \$264,010; A. Latchininsky's share - \$85,000

2010 FUNDED PROPOSALS: 6 (\$245,093)**NASA / Upper Midwest Aerospace Consortium Grant:**

1. Remote Sensing applications to pest monitoring in Northern Great Plains and Central Asia (PI) - \$20,000

USDA-APHIS-PPQ Funding:

2. Wyoming Cooperative Agricultural Pest Survey infrastructure and bundled small grain survey (non-competitive funding) (PI) - \$143,883
3. Gypsy Moth Survey (PI) - \$5,500

USDA-CSREES Funding:

4. Extension IPM Coordination and Support funds (Co-PI); Total \$69,420; A. Latchininsky's share - \$34,710

Great Plains Diagnostic Network funds:

5. Plant pathology and entomology programs to support the diagnostic efforts of the Great Plains diagnostic network and to protect Wyoming's agriculture from acts of bioterrorism (Co-PI); Total \$40,000; A. Latchininsky's share - \$11,000

Wyoming Department of Agriculture Funds:

6. Applied research and development of improved grasshopper pest management practices in Wyoming (Principal Investigator) \$30,000

2009 FUNDED PROPOSALS: 7 (\$235,267)**USDA-APHIS-PPQ Funding:**

1. Train-the-Trainers Grasshopper IPM Workshops (PI) - \$20,000
2. Wyoming Cooperative Agricultural Pest Survey infrastructure (non-competitive funding) (PI) - \$146,083
3. Gypsy Moth Survey (PI) - \$5,500

USDA-CSREES funding:

4. Economic and environmental sustainability of conventional, reduced-input, and organic approaches on western crop-range-livestock farms (Co-PI); Total \$500,000; A. Latchininsky's share - \$3,000
5. Extension IPM Coordination funds (Co-PI); Total \$65,000; A. Latchininsky's share - \$32,500

Great Plains Diagnostic Network funds:

6. Plant pathology and entomology programs to support the diagnostic efforts of the Great Plains diagnostic network and to protect Wyoming's agriculture from acts of bioterrorism (Co-PI); Total \$44,500; A.

Latchininsky's share - \$12,500

NASA / Upper Midwest Aerospace Consortium Grant:

7. Remote Sensing applications to pest monitoring in Northern Great Plains and Central Asia (PI) - \$15,684

2008 FUNDED PROPOSALS: 7 (\$264,300)

USDA-APHIS-PPQ Funding:

1. Train-the-Trainers Grasshopper IPM Workshops (PI) - \$20,350
2. Developing Web-based Wyoming Grasshopper GIS Database (PI) - \$12,694
3. Regional Extension for CARMA: Expanding Grasshopper Management Software to Utah, Idaho, South Dakota and New Mexico (PI) - \$40,000
4. Wyoming Cooperative Agricultural Pest Survey Core project (non-competitive funding) (PI) - \$150,756
5. Gypsy Moth Survey (PI) - \$5,500

Wyoming Department of Agriculture Funds:

6. Wyoming Emergency Insect Management Program (PI) - \$10,000

NASA / Upper Midwest Aerospace Consortium Grant:

7. Remote Sensing and Spatial Analyses of Rangeland Insect Pest Outbreaks in Wyoming (PI) - \$25,000

2007 FUNDED PROPOSALS: 9 (total: \$305,961)

USDA-CSREES Pest Management Alternative Program competitive grant:

1. Innovative fly management strategies on Pastured and Rangeland Beef Cattle in the Western Region; Proposal #2007-03198 (Co-PI with WSU); Total \$187,999; A. Latchininsky's share - \$48,000.

USDA-CSREES Western Region IPM Center Funding:

2. Western Region School IPM. Implementation and Assessment Work Group (Co-PI); Total \$10,000; A. Latchininsky's share - \$2,000.

USDA-APHIS-PPQ Funding:

3. Grasshopper IPM Workshops (Principal Investigator) - \$13,002
4. Regional Extension for CARMA: Expanding Grasshopper Management Software to Montana and North Dakota (Principal Investigator) - \$23,507
5. Gypsy Moth Survey (Principal Investigator) - \$5,500
6. Wyoming Cooperative Agricultural Pest Survey Core project (non-competitive funding) (Principal Investigator) - \$175,952
7. Identification of Arthropods collected with pheromone fruit tree pest traps in Wyoming (Principal Investigator) - \$1,000

NASA / Upper Midwest Aerospace Consortium Grant:

8. Remote Sensing Applications to Rangeland Pest Monitoring in Northern Great Plains (Principal Investigator) - \$27,500

UW College of Agriculture Mini-IPM Grant:

9. Developing and Implementing Ultra-Low Coverage Methods for Chemical and Biological Control of Rangeland Grasshoppers (Principal Investigator) - \$9,500

2006 FUNDED PROPOSALS: 12 (total: \$183,515)

UW Ag Experiment Station Competitive Grant Program:

1. IPM Strategy for Sustainable Black Grass Bug Management in Wyoming Grasslands Enrolled in Conservation Reserve Program (Principal Investigator) - \$60,000

USDA-APHIS-PPQ Funding:

2. Mormon Cricket Identification and Management Poster (Principal Investigator) - \$6,622
3. Grasshopper IPM Workshops (Principal Investigator) - \$19,393
4. Gypsy Moth Survey (Principal Investigator) - \$5,500
5. Identification of Arthropods Collected with Forest Pest Traps in Wyoming (Principal Investigator) - \$1,000

UW College of Agriculture Mini-IPM Grant:

6. Developing and Implementing Ultra-Low Coverage Methods for Chemical and Biological Control of Rangeland Grasshoppers (Principal Investigator) - \$9,500

NASA / Upper Midwest Aerospace Consortium Grant:

7. Remote Sensing applications to rangeland pest monitoring in Northern Great Plains (Principal Investigator) - \$27,500

National Park Service, Rocky Mt. Cooperative Studies Unit (RM-CESU) Grant:

8. Literature Study and Monitoring Strategies for Eight Insect Species of the Great Sand Dunes National Park (Principal Investigator) - \$5,000

Wyoming Department of Agriculture Funds:

9. Applied research and development of grasshopper pest management practices in Wyoming (Principal Investigator) \$30,000

Great Plains Diagnostic Network Grant:

10. Wyoming State Arthropod Diagnostic lab (Principal Investigator) - \$8,000

Valent Corp. Grant-in-Aid:

11. Testing of insecticide Pyriproxyphen against rangeland grasshoppers (Principal Investigator) - \$10,000

USDA Cooperative Agricultural Pest Survey grants:

12. Identification of Arthropods Collected with Pheromone Fruit Tree Pest Traps in Wyoming (Principal Investigator) - \$1,000

2005 FUNDED PROPOSALS: 13 (TOTAL: \$211,290).**USDA-APHIS-PPQ Funding:**

1. Grasshopper Management Poster (Principal Investigator) - \$6,476
2. Grasshopper Management Workshops (Principal Investigator) - \$24,167
3. Gypsy Moth Survey (Principal Investigator) - \$5,500

USDA-Forest Service, Forest Health Evaluation Monitoring Competitive Program:

4. Host selection behavior and progression of infestation by the Mountain Pine Beetle, in mixed stands of limber and lodgepole pine (Principal Investigator) - \$16,500

UW College of Agriculture Mini-IPM Grant:

5. Developing and Implementing Ultra-Low Coverage Methods for Chemical and Biological Control of Rangeland Grasshoppers (Principal Investigator) - \$9,873

National Park Service, Rocky Mountains Cooperative Ecosystems Studies Unit Grant:

6. Monitoring and Long-Term Control of Insect Pests at Colter Bay Indian Arts Museum, Grand Teton National Park (Principal Investigator) - \$4,837

NASA / Upper Midwest Aerospace Consortium Grant:

7. Mapping locust habitats in Central Asia using Remote Sensing (Principal Investigator) - \$18,800

Wyoming Department of Agriculture Funds:

8. Development of Efficient, Economic, and Environmentally Benign Methods of Grasshopper Population Management (Principal Investigator) - \$30,000

Great Plains Diagnostic Network Grant:

9. Wyoming State Arthropod Diagnostic Lab (Principal Investigator) - \$8,000

Valent Corp. Grant-in-Aid:

10. Testing of Insecticide Knack® against rangeland grasshoppers (Principal Investigator) - \$2,500 (unrestricted gift)

Peacock Industry Grant-in-Aid:

11. Development of Wheat Bran Bait Formulations for Rangeland Grasshopper Control (Principal Investigator) - \$8,637 (unrestricted gift)

USDA Cooperative Agricultural Pest Survey Funds:

12. Identification of Arthropods Collected with Pheromone Traps in Wyoming (Principal Investigator) - \$1,000

Food and Agriculture Organization of the United Nations (FAO UN):

13. Train-the-Trainers program materials for Desert locust management in West Africa (Principal Investigator) - \$75,000

2004 FUNDED PROPOSALS: 13 (TOTAL \$200,604).**EPA/IR-4 Biopesticide Demonstration Program Funds:**

1. Evaluation of Mycotrol O® (Beauveria bassiana, GHA strain) application enhanced with Canola oil to prevent grasshopper infestation of improved pastures and irrigated fields (Principal Investigator) - \$15,000

Fremont Co. Weed and Pest Council Grant:

2. Optimization of the dose rates of Mycotrol O® and oil attractants to control pest grasshoppers (Principal Investigator) - \$12,500

UW College of Agriculture Mini-IPM Grant:

3. Developing and Implementing Ultra-Low Coverage Methods for Chemical and Biological Control of Rangeland Grasshoppers (Principal Investigator) - \$9,950

USDA-APHIS-PPQ Funding:

4. Wyoming Grasshopper Pest Management Handbook (Principal Investigator) - \$19,195
5. Grasshopper Management Workshops (Principal Investigator) - \$41,349
6. Gypsy Moth Survey (Principal Investigator) - \$5,500
7. Gypsy Moth Data (Principal Investigator) - \$330
8. Forest Insect Identification (Principal Investigator) - \$2,000

Upper Midwest Aerospace Consortium Funds:

9. Replacing insecticides with information: improving locust surveys in Kazakhstan with remote sensing. Phase II (Principal Investigator) - \$40,000

USAID (US-Israel Cooperative Research Program):

10. Biological control of locusts in Georgia: building self-sufficiency (Co-PI) - \$36,600

Crompton/Uniroyal Corp. Grant-in-Aid:

11. Field Tests of Dimilin® 2L (Diflubenzuron) for the Control of Rangeland Grasshoppers; (Principal Investigator) - \$12,000

Syngenta Corp. Grant-in-Aid:

12. Field tests of Warrior® insecticide to control rangeland grasshoppers (Principal Investigator) - \$3,000

National Park Service, Rocky Mountains Cooperative Ecosystems Studies Unit Grant:

13. Survey and Mitigate for Effects of Swallow Nests at Colter Bay Visitor Center and Indian Arts Museum, Grand Teton National Park (Principal Investigator) - \$3,180

2003 FUNDED PROPOSALS: 8 (TOTAL \$138,120).

USDA-APHIS-PPQ Funding:

1. CARMA: Expanding Grasshopper Management software to Address current Problems; \$15,700 (Principal Investigator).
2. Electronic, On-line Version of a Key to the Grasshoppers of Wyoming; \$7,770 (Principal Investigator).
3. Grasshopper Management Workshops; \$23,375 (Principal Investigator).
4. On-line Grasshopper Survey Data Entry System; \$11,825 (Principal Investigator).

College of Agriculture IPM Funds:

5. Developing and Implementing Ultra-Low Coverage Methods for Chemical and Biological Control of Rangeland Grasshoppers; \$9,950 (Principal Investigator).

Wyoming Department of Agriculture Funds:

6. Reduced Agent-Area Grasshopper Management; \$20,000 (Principal Investigator).

Upper Midwest Aerospace Consortium Funds:

7. Replacing Insecticides with Information: Improving Locust Surveys in Kazakhstan with Remote Sensing; \$75,000 (Co-Principal Investigator with J. Lockwood; share \$37,500).

Crompton Corporation Grant-in-Aid:

8. Field Tests of Dimilin® 2L (Diflubenzuron) for the Control of Rangeland Grasshoppers; \$12,000 (Principal Investigator).

Previously Funded Proposals (Total Share of A. Latchininsky \$285,216).

2001

1. Association for Applied Acridology International Workshop on World-wide Marketing Opportunities for Aventis Acridicides in Laramie, Wyoming, funded by Aventis Environmental Sciences; \$20,000 (co-PI with

J. Lockwood; share \$10,000).

2000

1. International Consultant for the Food and Agriculture Organization of the United Nations (FAO UN). Three-month mission in Kazakhstan as Project Leader to develop the Technical Cooperation Project Emergency Assistance Program to Control Locust Outbreaks; \$62,500 (Total for the project: \$302,000).
2. Organizer and Convener of the Round Table Meeting of the FAO and the Government of Kazakhstan on the Anti-Locust Campaign 2000 in Central Asia (Almaty, Kazakhstan); \$32,000 (Project Leader).

1999

1. Full-time benefited position, Research Scientist / Executive Director of the Association for Applied Acridology International, joint project between industry consortium and University of Wyoming; \$45,000. Renewed for the years 2000, and 2002.
2. North Atlantic Treaty Organization Advanced Research Workshop on Acridogenic and Anthropogenic Hazards to the Grassland Biome: Managing Grasshopper Outbreaks without Risking Environmental Disaster (Estes Park, CO); \$50,000. Co-Principal Investigator (with J. Lockwood, UW and M. Sergeev, Novosibirsk State University; share \$16,667).
3. Rhône-Poulenc grant for text editing and preparation of color illustrations for the Guide to the economic and common species of locusts and grasshoppers of Central Asia; \$5,000 (Principal Investigator).

1997

1. Rhône-Poulenc grant for developing New Strategies of Chemical Grasshopper Control in Siberia; \$6,000 (Principal Investigator).

1996

1. Rhône-Poulenc grant for conducting registration trials of the insecticide Adonis in Russia; \$4,500 (Principal Investigator).

1995

1. DowElanco grant for testing new strategies of chemical grasshopper control in East Siberia; \$5,000 (Principal Investigator).

1994

1. Zeneca grant for conducting the registration trials of the insecticide Karate in Russia; \$300 (Personal Contract).
2. Sumitomo Chemical grant for refining the dose rates of the insecticide Fenitrothion for grasshopper control in Russia; \$250 (Personal Contract).
3. DowElanco 1-year contract for consultancy in applied acridology; \$2,500 (Personal Contract).

1991

1. Grant of the Yacutian Ministry of Agriculture to develop the IPM methods of grasshopper management; \$3,000 (Principal Investigator).

1990-1993

1. Grant of the Russian Academy of Agricultural Sciences for the development of the long-term forecasting model for the main locust species in the former Soviet Union; \$5,000 (Co-Principal Investigator with O. Naumovich, VIZR; share \$2,500).

CLASSES TAUGHT AT UWYO

1. Undergraduate level classes (* - invited guest lectures)

2012-2014 – *Principles of Range Management (REWM 2000, 3 credits). Guest lecture on “Rangeland pest biology, ecology and management,” invited by Melanie Murphy

2004-2014 – *Pesticide Application and Safety (PLNT 1150, 1 credit). This is the Wyoming commercial pesticide certification school class. I give two lectures: “Pests of human health” and “Crop pests.”

2009-2014 – *Insect Biology (ENTO 1000/1001, 5 credits). Guest lecture on the order of Orthoptera, invited by Scott Shaw.

2013 – Problems: Entomology (ENTO 4686, 1 credit; Student: Brenna Marsicek; Subject: Pollinator biology and conservation). I designed this class from scratch.

2007 – Problems: Entomology (ENTO 4686, 2 credits; Student: Betsy Mock; Subject: Wyoming spiders: biology,

- identification, and importance; honors program). I designed this class from scratch.
- 2006 – *Remote Sensing Applications to Natural Resource Management (BOT 4140, 3 credits). Guest lecture on “Applications of remote sensing to pest monitoring,” invited by Ramesh Sivanpillai.
- 1998-1999 – Biodiversity Crisis (ENTO 1100, 3 credits) – lecturer and lab assistant. This class had the highest enrollment in the College of Agriculture at that time.
- 1995-1998 – Biodiversity Crisis (ENTO 1100, 3 credits) – teaching assistant. I came to UW in 1995 on a graduate teaching assistantship to teach the lab section of this class.

2. Graduate level classes (* - invited guest lectures)

- 2008, 2011, 2014 – Insects for Teachers. Collection and Identification of Insects (ENTO 5601, 1 credit). This class is offered to Wyoming school teachers through Science and Math Teaching Center of UW College of Education. I designed it from scratch.
- 2012, 2014 – *Aquatic Entomology (ENTO 5678, 3 credits). Guest lecture “Aquatic Orthoptera,” invited by Scott Shaw.
- 2011, 2012 – *Environmental & Social Issues of the Developing World (ENR 3900, 3 credits). Guest lecture on “The Aral Sea ecological disaster,” invited by Ramesh Sivanpillai.
- 2003 – Issues in International Pest Management (ENTO 5689, 1 credit). Jeff Lockwood and I developed and co-taught this class. We received “Excellence in Agriculture” award from the College of Agriculture for creating this class in 2001.
- 2003-2014 – Dissertation and Thesis Research (ENTO 5980 and 5960, 1 to 7 credits)
- 2007 – *Insect Classification (ENTO 5684, 3 credits). Guest lecture on Orthopteroid orders, invited by Scott Shaw.
- 2007 – *Range Resource Management (REWM 5000, 2 credits). Guest lecture “Principles of rangeland pest management,” invited by Ann Hild.
- 2000 – *Insect-Plant Interactions (ENTO 5685, 2 credits). Guest lecture “Grasshopper and locust herbivory,” invited by Mike Brewer.
- 1997-1998 – *Issues in Life Sciences (ENTO 5688, 1 credits). Guest lectures on locusts, invited by Jeff Lockwood.
- 1995 – *Insect Population Biology (ENTO 5882, 3 credits). Guest lecture “Locust biology and population dynamics,” invited by Jeff Lockwood.

INVITED GUEST LECTURES AT OTHER INSTITUTIONS (11)

- 2014 – University of North Dakota, Grand Forks, ND. SpSt574, 3 credits. Remote Sensing in Developing Countries (graduate). Invited lecture “The Aral Sea ecological disaster,” 30 April, invited by Santhosh Seelan.
- 2013 – Uzbekistan Agricultural University, Tashkent, Uzbekistan. “Locusts and us: the 21st century science against the worst historical pest.” Invited lecture to undergraduate students, 28 April, invited by Furkat Gapparov.
- 2012 – Kyrgyz State Agricultural University, Bishkek, Kyrgyzstan. “The Aral Sea environmental disaster.” Invited lecture to MS students, November 14, invited by Abdybek Asanaliev.
- 2012 – St. Petersburg State University, Russia, Department of Geography and Geo-ecology (undergraduate). Invited lecture “The Aral Sea ecological disaster and food safety problems in Central Asia,” November 24, invited by Stanislav Latchininsky.
- 2011 – Colorado State University, Ft. Collins, CO. Insects, Science and Society undergraduate class, 21 September. Invited guest lecture “Locusts: 21st century science against the ancient enemy of agriculturists,” Invited by Whitney Cranshaw.
- 2004-2009 – University of North Dakota, Grand Forks, ND. SpSt574, 3 credits. Remote Sensing in Developing Countries (graduate). Invited lectures (3) “Locusts and Remote Sensing,” invited by Santhosh Seelan.
- 2006 – Tbilisi State University, Georgia. Insect Ecology class (undergraduate). Invited lecture “Locusts and US: New science against the Biblical enemy,” 21 May. Invited by Eleonora Abashidze.
- 2001 – Adelphi University, Garden City, NY. Biology honors class (undergraduate), January 12. Invited lecture “The Wonders of Lake Baikal,” invited by Michael Cook.
- 2001 – Milwaukee Institute of Art and Design, Milwaukee, WI. HS320, History and Philosophy of Science

(undergraduate). Invited lecture "Thomas Kuhn's theory of scientific revolutions," 14 November, invited by Leslie Fedorchuck.

GRADUATE STUDENTS AT UW (finished: 9; current: 4*)

Dean D. – MS Entomology (Co-Chair) – graduated 2007 (under a different advisor). Subject: Host Selection and Infestation Progression of Mountain Pine Beetle in Mixed Stands of Limber and Lodgepole Pines.

Gilchrist T. – MS Entomology (Co-Chair) – graduated 2008. Subject: *In situ* marking of *Culex tarsalis* larvae (Diptera: Culicidae) with ¹⁵N: A novel technique in mosquito mark-capture studies.

Regula V. – MS Rangeland Ecology (Member) – graduated 2008. Subject: Recolonization of Reclaimed Soil in Wyoming by Arthropods.

Kneeland A. – MS Entomology (Chair) – graduated 2009. Subject: Detection and Integrated Pest Management for Black Grass Bugs.

Dema Tshering – MS Education (Member) – graduated 2011. Subject: A curriculum on butterflies of Bhutan: A citizen science project for middle and high school students of Bhutan.

Swanson K. – MS Entomology (Member) – graduated 2012. Subject: Predaceous Diving Beetles (Coleoptera: Dytiscidae) of Wyoming.

Smith J. – MS Entomology (Chair) – graduated 2012. Subject: Application of remote sensing to Moroccan locust (*Dociostaurus maroccanus* Thunberg, 1815) habitat in southern Uzbekistan.

Brown T.J. – MS Education (Member) – graduated 2014. Subject: Assessing and Accommodating Students with Learning Disabilities in Science.

Stevens B. – PhD Entomology (Chair) – will graduate 2014 (successfully defended; currently making corrections to dissertation). Subject: Suppression of horn fly emergence with application of Diflubenzuron used against rangeland grasshoppers.

*Smith D. – PhD Entomology (Chair) – projected graduation date: spring 2015

*Dakhel W. – PhD Entomology (Chair) – projected graduation date: fall 2015

*Fernandez H.A. – PhD Entomology (Member) – projected graduation date: spring 2016

*Noel Lee – M.S. Entomology (Chair) – projected graduation date: spring 2016

GRADUATE STUDENTS AT INSTITUTIONS ABROAD – 12 (Committee or jury member; thesis referee)

Cullen D.A. – PhD Entomology, University of Sydney, Australia (external examiner, 2012)

Medetov M. – PhD Entomology, Uzbek Institute of Zoology, Tashkent, Uzbekistan (dissertation reviewer, 2012)

Tufliev N. – PhD Entomology, Uzbek Inst. for Plant Protection, Tashkent, Uzbekistan (dissertation reviewer, 2012)

Bazelet C. – PhD Entomology, Stellenbosch University, South Africa (external examiner, 2011)

Kucherov D.A., PhD Entomology, St. Petersburg State University, Russia (dissertation reviewer, 2011)

Babah Ebbe M. – PhD Entomology, The Sorbonne University, Paris, France (jury member; rapporteur, 2009)

Khasenov S. – PhD Entomology, Kazakh Inst. for Plant Prot., Almaty, Kazakhstan (dissertation reviewer, 2009)

Franc A. – PhD Entomology, Univ. Paul Valéry, Montpellier, France (jury member; rapporteur, 2008)

Khajtmuratov A. – PhD Entomology, Uzbek Inst. for Plant Prot., Tashkent, Uzbekistan (dissertation reviewer, 2008)

Khudanov S. – PhD Entomology, Uzbek Inst. for Plant Prot., Tashkent, Uzbekistan (dissertation reviewer, 2008)

Abashidze E., PhD Entomology, Tbilisi State University, Georgia (external member, 2005)

Gapparov F. – DSc Agriculture, Uzbek Institute for Plant Protection, Tashkent, Uzbekistan (external member, 2005)

EXTENSION ACTIVITIES

Extension and Outreach Presentations (total 68 events and 394 presentations since 2003)

2014 (3 events; presentations by A. Latchininsky: 18)

1. 10th Annual ENTO Short Course. Laramie, WY, March 18-20. Titles presented by A. Latchininsky (2): *Introduction to Entomology*; *Grasshopper control 101*.
2. Fremont County Master Gardener Entomology program, Riverton, WY. April 25. Titles presented by A. Latchininsky (6): *Insects in the garden: pests or pets?*; *Order Lepidoptera*; *Plant damage by arthropods*;

Main orders of horticultural importance; Insect ID practice; How to use Peterson's Field Guide.

International Extension Training Delivered

3. FAO UN International Training Course on Locust Monitoring and Information Management in Nuklus, Uzbekistan, August 18-22. Titles presented by A. Latchininsky (10): *Introduction to Entomology; Locusts and Us; Biology and ecology of Moroccan, Migratory and Italian locusts; Locust natural enemies; How to correctly fill out the FAO monitoring form; Aral Sea ecological disaster; Remote sensing and GIS in locust monitoring; Locust population dynamics; Locusts and climate change.*

2013 (6 events; presentations by A. Latchininsky: 18)

1. 9th ENTO Short Course, UW, 19 March. Titles presented by A. Latchininsky (4): *Introduction to Entomology; Insect pests and climate change: what to expect? Pesticide Spraying: Which Technology is Most Efficient? How to Attract and Protect Pollinators?*
2. Conservation Expo, Albany County Fairgrounds, Laramie, WY. 9 February. Titles presented by A. Latchininsky (2): *The wonderful world of insects; Beneficial Insects: How to Attract and Protect Pollinators?*
3. Insects around us. Program for kids at Curt Gowdy State Park.
4. Grasshopper control on rangeland and cropland. Sheridan R&E Center Field Day. 15 June
5. Pollinator diversity. La Bonte Park pollinator expo, 17 June.

International Extension Training Delivered

6. FAO UN International Training Course on Locust Monitoring and Information Management in Astrakhan, Russia. May 12-16. Titles presented by A. Latchininsky (10): *Introduction to Entomology; Locusts and Us; Biology and ecology of Moroccan, Migratory and Italian locusts; Locust natural enemies; How to correctly fill out the FAO monitoring form; Aral Sea ecological disaster; Remote sensing and GIS in locust monitoring; Locust population dynamics; Locusts and climate change.*

2012 (8 events; presentations by A. Latchininsky: 21)

1. 8th Annual University of Wyoming Entomology Short Course, Hilton Garden Inn, Laramie, WY. March 6. Titles presented by A. Latchininsky (4): *Introduction to Entomology; How to use Peterson's Field Guide; Grasshopper control: what's new?; Grasshopper natural enemies.*
2. Second annual Wyoming Mosquito Training Course, Laramie, WY. May 15. Habitats, life cycle and biology of Wyoming mosquitoes.
3. Rangeland grasshopper IPM program makes a significant economic impact on Wyoming agriculture. 7th International IPM Symposium in Memphis, TN. March 27, 2012.
4. Fremont County Master Gardener Entomology program, Riverton, WY. May 4. Titles presented by A. Latchininsky (3): *Insects in the garden: pests or pets?; Order Lepidoptera; Plant damage by arthropods.*
5. UW Berry Center, Cathedral Home children summer program. A wonderful and mysterious world of insects. July 20.
6. Insects for kids. NRCS summer camp for children, Centennial, WY. September 6.

Regional activities

7. Tri-River Area Extension Pest Management Workshop, Grand Junction, CO. February 21. Titles presented by A. Latchininsky (2): *Rangeland grasshopper management; Agricultural grasshopper management.*

International Extension training delivered

8. FAO UN Workshop on locust monitoring and information management for Kyrgyz Department of Plant Protection, Ministry of Agriculture. Jalal-Abad, Kyrgyzstan. 17-21 April. Titles presented by A. Latchininsky (8): *Introduction to Entomology; Locusts and Us; Biology and ecology of Moroccan and Italian locusts; Locust natural enemies; How to correctly fill out the FAO monitoring form; Aral Sea ecological disaster; Remote sensing and GIS in locust monitoring; Locust population dynamics.*

2011 (9 events; presentations by A. Latchininsky: 25).

1. 7th Annual ENTO Short Course. UW, Laramie, March 15-17. Titles presented by A. Latchininsky (3): *Welcome to Alien Empire; Featured Order: Lepidoptera; How to use Peterson's Field Guide.*
2. Wyoming Butterflies and Moths: Worth the Watching. Carbon Co. Higher Education Center, Rawlins, WY. "Power of Place" lecture series, March 8.
3. Fremont Co. Master Gardener Entomology Training, May 5, Riverton, WY. Titles presented by A. Latchininsky (3): *Insects in the garden: pests or pets?; Order Lepidoptera; Plant damage by arthropods.*
4. Campbell Co. Master Gardener Entomology training, Gillette, WY, March 24. Titles presented by A. Latchininsky (3): *Insects in the garden: pests or pets?; Order Lepidoptera; Plant damage by arthropods.*
5. Platte Co. Master Gardener Entomology training, Wheatland, WY, March 29. Titles presented by A. Latchininsky (3): *Insects in the garden: pests or pets?; Order Lepidoptera; Plant damage by arthropods.*
6. Uinta Co. Master Gardener Entomology training, Evanston, May 14. Titles presented by A. Latchininsky (3): *Insects in the garden: pests or pets?; Order Lepidoptera; Plant damage by arthropods.*
7. Hot Springs Co. Master Gardener Entomology training, Thermopolis April 28. Titles presented by A. Latchininsky (3): *Insects in the garden: pests or pets?; Order Lepidoptera; Plant damage by arthropods.*
8. Laramie County Master Gardener Program, LCCC, Cheyenne. February 16. Titles presented by A. Latchininsky (3): *Insects in the garden: pests or pets?; Order Lepidoptera; Plant damage by arthropods.*

Regional Extension Event

9. Grasshopper Suppression and Endangered Species Workshop. North Platte, NE, UNL West Central R&E Center, April 5. Titles presented by A. Latchininsky (6): Introduction to grasshopper biology and ecology; Grazing Management: More Grass, Fewer Grasshoppers; Grasshopper Suppression: Available Tools (Liquids, Soild Baits, Pathogens); RAATs: How to Do More with Less; Non-Target Effects.

2010 (sabbatical year. 20 events; presentations developed by A. Latchininsky but delivered by others: 70)

1. Herring, Boone and Gentle, Justin USDA-APHIS-PPQ-WY; Scott Schell and A. Latchininsky (UW). Grasshopper management public meetings (17). Casper, Thermopolis, Tensleep, Douglas, Wheatland, Greybull, Powell, Cody, Casper (2), Lyman, Lusk, Newcastle, Sundance, Cheyenne, Torrington, Saratoga.
2. Schell S., Latchininsky A., Leatherman D., Lloyd J., Koch L. IPM Training course for Master Gardeners and Extension Professionals. Laramie, May 17 & 18th, 2010.
3. Entomology Update at annual Fall Weed & Pest Conference. Cheyenne, WY, November.
4. Grasshopper briefing to the Agriculture committee of the Wyoming legislature. Mar. 2, 2010.

2009 (14 events; presentations by A. Latchininsky: 40)

1. Wyoming grasshopper IPM Train-the-Trainers workshop. Leiter, WY, March 10. Titles presented by A. Latchininsky (5): *The 3-phase approach to grasshopper IPM; Liquid insecticides: getting the best of our tools; Non-target effects of grasshopper control; Pathogens: the tools of the future; The good, the bad and the ugly: Who is who among grasshoppers.*
2. Wyoming grasshopper IPM Train-the-Trainers workshop. Kaycee, WY, March 11. Titles presented by A. Latchininsky (5): *The 3-phase approach to grasshopper IPM; Liquid insecticides: getting the best of our tools; Non-target effects of grasshopper control; Pathogens: the tools of the future; The good, the bad and the ugly: Who is who among grasshoppers.*
3. Wyoming grasshopper IPM Train-the-Trainers workshop. Lusk, WY, March 12. Titles presented by A. Latchininsky (5): *The 3-phase approach to grasshopper IPM; Liquid insecticides: getting the best of our tools; Non-target effects of grasshopper control; Pathogens: the tools of the future; The good, the bad and the ugly: Who is who among grasshoppers.*
4. ENTO Short Course 2009 (UW, February 10, 16-hr program). Titles delivered by A. Latchininsky (3): *Introduction to Entomology; How to use Peterson's Field Guide; Invasive grasshopper – a threat to biodiversity?*
5. Campbell Co. Master Gardener Entomology training, Gillette, WY, March 19. Titles presented by A. Latchininsky (3): *Insects in the garden: pests or pets?; Order Lepidoptera; Plant damage by arthropods.*

6. Insecticide update: grasshopper and mosquito control. Wyoming Weed Management Association Annual Meeting, Casper, WY, January 21.
7. EPA Region 8 IPM Training in Cody, WY, February 2. Titles presented by A. Latchininsky (2): *School IPM; IPM on rangelands.*
8. EPA Region 8 IPM Training in Cheyenne, WY, February 5. Titles presented by A. Latchininsky (2): *School IPM; IPM on rangelands.*
9. Laramie Co. Master Gardener Entomology training, Cheyenne, WY, February 19. Titles presented by A. Latchininsky (3): *Insects in the garden: pests or pets?; Order Lepidoptera; Plant damage by arthropods.*
10. Fremont Co. Master Gardener Entomology training, Riverton, April 9. Titles presented by A. Latchininsky (3): *Insects in the garden: pests or pets?; Order Lepidoptera; Plant damage by arthropods.*
11. Sweetwater Co. Master Gardener Entomology training, Rock Springs, WY, April 10. Titles presented by A. Latchininsky (3): *Insects in the garden: pests or pets?; Order Lepidoptera; Plant damage by arthropods.*
12. Albany Co. Master Gardener Entomology training, Laramie, WY, March 14. Titles presented by A. Latchininsky (3): *Insects in the garden: pests or pets?; Order Lepidoptera; Plant damage by arthropods.*
13. Carbon Co. Master Gardener Entomology training, Rawlins, WY, April 15. Titles presented by A. Latchininsky (3): *Insects in the garden: pests or pets?; Order Lepidoptera; Plant damage by arthropods.*
14. EPA Region 8 IPM inspectors training, Cheyenne, WY, April 23. Titles presented by A. Latchininsky (2): *School IPM; IPM on rangelands.*

2008 (22 events; presentations by A. Latchininsky: 65)

1. Entomology Short Course 2008 (UW, February, 16-hr program delivered with S. Schell, T. Collier, B. Hammon, P. Cushing, W. Reeves, L. Koch, T. Gilchrist, and S. Shaw. Titles presented by A. Latchininsky (4): *Introduction to entomology; Wyoming butterflies and moths; Insect plant damage; Grasshoppers on Bird Island.*
2. West Nile Virus Vector Management. March 17-18, Laramie, WY.
3. West Nile Virus Vector Management. March 20-21, Cody, WY.
4. Insecticide Update 2008. January 23, Casper, WY. Wyoming Weed Management Association Annual Meeting.
5. Goshen Co. Master Gardener training (Torrington, WY, January 31, with S. Schell). Titles presented by A. Latchininsky (3): *Insects in the garden: pests or pets?; Order Lepidoptera; Plant damage by arthropods.*
6. Lygus bug management in seed alfalfa. February 19, Basin, WY.
7. Garden insect pest management without hurting pollinators. February 21, Greeley, CO.
8. Insects in Sage Grouse Diet. February 29, Pinedale, WY. Jonah Field Interagency Meeting on Sage Grouse habitat management.
9. Laramie Co. Master Gardener Training (Cheyenne, WY, March 6). Titles presented by A. Latchininsky (3): *Insects in the gardens: pests or pets?; Butterflies and moths; Immature insects.*
10. Platte Co. Master Gardener Training (April 1, Wheatland, WY). Titles presented by A. Latchininsky (3): *Insects in the gardens: pests or pets?; Order Lepidoptera; Insect Plant Damage.*
11. Albany Co. Master Gardener Training (April 15, Laramie, WY). Titles presented by A. Latchininsky (3): *Introduction to Entomology; Butterflies and moths; Insect Plant Damage.*
12. Sweetwater Co. Master Gardener Training (April 23, Rock Springs, WY). Titles presented by A. Latchininsky (3): *Introduction to Entomology; Butterflies and moths; Insect Plant Damage.*
13. Fremont Co. Master Gardener Training (April 24, Lander, WY). Titles presented by A. Latchininsky (3): *Introduction to Entomology; Butterflies and moths; Insect Plant Damage.*
14. Lincoln Co. Master Gardener Training (May 15, Afton, WY). Titles presented by A. Latchininsky (5): *Introduction to Entomology; Butterflies and moths; Insect Plant Damage; How to use the insect ID key; Main insect orders of horticultural importance.*
15. Uinta Co. Master Gardener Training (May 16, Evanston, WY). Titles presented by A. Latchininsky (5): *Introduction to Entomology; Butterflies and moths; Insect Plant Damage; How to use the insect ID key; Main insect orders of horticultural importance.*

Regional Extension Activities

16. Grasshopper IPM Train-the-Trainers New Mexico Workshop, March 27, Roswell, NM. Titles presented by A. Latchininsky (6): *The 3-phase approach to grasshopper IPM; Liquid insecticides: getting the best of our tools; Non-target effects of grasshopper control; Grasshoppers in desert grasslands; Pathogens: the tools of the future; The good, the bad and the ugly: Who is who among grasshoppers.*
17. Grasshopper IPM Train-the-Trainers Idaho Workshop, April 22, Boise, ID. Titles presented by A. Latchininsky (6): *The 3-phase approach to grasshopper IPM; Liquid insecticides: getting the best of our tools; Non-target effects of grasshopper control; Pathogens: the tools of the future; Mormon Cricket biology and management; The good, the bad and the ugly: Who is who among grasshoppers.*
18. Grasshopper IPM Train-the-Trainers Oregon Workshop, April 25, Baker City, OR. Titles presented by A. Latchininsky (7): *The 3-phase approach to grasshopper IPM; Hot spot grasshopper treatments; Grazing strategies to reduce grasshopper threat; Liquid insecticides: getting the best of our tools; Non-target effects of grasshopper control; Pathogens: the tools of the future; The good, the bad and the ugly: Who is who among grasshoppers.*
19. Grasshopper IPM Train-the-Trainer Colorado Workshop. October 3, Ft. Collins, CO. Titles presented by A. Latchininsky (5): *The 3-phase approach to grasshopper IPM; Liquid insecticides: getting the best of our tools; Non-target effects of grasshopper control; Pathogens: the tools of the future; The good, the bad and the ugly: Who is who among grasshoppers.*

International Extension Activities

20. Grasshopper control in the USA using RAATs. Locust control in Central Asia. August 22, State of Victoria Dept. of Primary Industries (Knoxville, VIC, Australia).
21. New methods and insecticides for locust control. July 22, Institute of Land Management, Dushanbe, Tajikistan.
22. Novel insecticides and application strategies for locust control. July 29, Ministry of Agriculture, Bishkek, Tajikistan.

2007 (19 events, presentations by A. Latchininsky: 47)

1. Laramie Co. Master Gardener Training (Cheyenne, WY, January, with S. Schell). Titles presented by A. Latchininsky (3): *Insects in the garden; Plant damage by insects; Butterflies and moths.*
2. Wyoming Weed Management Association and Commercial Pesticide Applicator Recertification (Casper, WY, February). Title: *Insecticide update 2007.*
3. Entomology Short Course 2007 (UW, February, 16-hr program delivered with S. Schell, D. Leatherman, S. Shaw, J. Lockwood and others). Titles presented by A. Latchininsky (5): *Introduction to entomology; Grasshopper biology and management; Immature insects; Plant damage by insects – symptoms; Grasshoppers on Bird Island.*
4. Spring workshop of Wyoming Weed and Pest council (Saratoga, WY, April). Title: *Arthropod identification.*
5. Fremont Co. Master Gardener training (Lander, WY, April, with S. Schell). Titles presented by A. Latchininsky (3): *Insects in the garden: pests or pets?; Order Lepidoptera; Plant damage by arthropods.*
6. Uinta and Lincoln Co. Master Gardener training (Evanston, WY, May). Titles (6): *Insects in the garden; Identification of major horticultural orders of insects; How to use Peterson's field guide; Order Lepidoptera; Arthropod plant damage; Grasshoppers in gardens.*
7. Sweetwater and Uinta Co. pesticide applicator training workshop (Green River, WY, June). Title: *Tree and shrub insect pest control.*
8. Wyoming Spider Identification and Biology Workshop (Laramie, WY, August; the 8-hr workshop featured Dr. Paula E. Cushing from Denver Museum of Nature and Science). Title: *Introduction to workshop.*
9. Pesticide Safety and Application (UW Class, December). Title: *Field Crop Pest Control.*
10. Pesticide Safety and Application (UW Class, December). Title: *Pests of Human Health.*

Regional Extension activities:

11. USDA-APHIS-PPQ Grasshopper Management Nebraska Train-the-Trainers Workshop (Thedford, NE, March, with S. Schell). Titles presented by A. Latchininsky (4): *The three-phase approach to grasshopper IPM; Liquid insecticides: old and new reliables; Non-target effects: reducing risks; The good, the bad, and the ugly: who's who among grasshoppers.*
12. USDA-APHIS-PPQ Grasshopper IPM Oregon Workshop (Klamath Falls, OR, with S. Schell and others). Titles presented by A. Latchininsky (6): *Grasshopper biology and ecology: the 3-phase approach to grasshopper IPM; Liquid insecticides: old and new reliables; Pathogens: the weapons of the future; Non-target effects: reducing risks; Grazing management: more grass, fewer grasshoppers; The good, the bad, and the ugly: who's who among grasshoppers.*
13. USDA-APHIS-PPQ Grasshopper Management New Mexico Train-the-Trainers Workshop (Tucumcari, NM, April, with S. Schell). Titles presented by A. Latchininsky (5): *The three-phase approach to grasshopper IPM; Liquid insecticides for grasshopper control; Non-target effects: reducing risks; Grasshopper biocontrol; Grasshoppers in desert grasslands.*
14. USDA-APHIS-PPQ Grasshopper Management Nebraska Train-the-Trainers Workshop (Imperial, NE, March, with S. Schell). Titles presented by A. Latchininsky (4): *The three-phase approach to grasshopper IPM; Liquid insecticides: old and new reliables; Non-target effects: reducing risks; The good, the bad, and the ugly: who's who among grasshoppers.*
15. Western Region School IPM implementation team training (September, Salt Lake City, UT).
16. Western Region School IPM development team (September, Portland, OR).

International Extension training delivered:

17. National Anti-locust center workshop (Nukus, Uzbekistan, June). Title: *Migratory locust: biology, ecology, and management.*
18. Ministry of Agriculture of Uzbekistan special seminar (Tashkent, Uzbekistan, June). Title: *International coordination in locust management.*
19. National Anti-locust center workshop (Karshi, Uzbekistan, June). Title: *Moroccan locust: biology, ecology, and management*

2006 (19 events; Presentations by A. Latchininsky: 26)

1. Pesticide Safety and Application (UW Class, January). Title: *Field Crop Pest Control.*
2. Pesticide Safety and Application (UW Class, January). Title: *Pests of Human Health.*
3. Commercial Pesticide Applicator Recertification School (Casper, WY, January). Title: *Insecticide Update.*
4. Wyoming Growers and Groundskeepers Association annual meeting (Casper, WY, January). Title: *Biorational insecticides* (delivered by S. Schell).
5. West Slope Extension Center Pesticide Applicators Recertification Training (Grand Junction, CO, February). Title: *Grasshopper IPM* (delivered by S. Schell).
6. Entomology Short Course for Wyoming Weed and Pest Specialists (Laramie, WY, April; 16 hour program delivered with S. Schell, W. Cranshaw, T. Collier, L. Koch, J. Lloyd, J. Lockwood R. Kumar and others). Titles presented by A. Latchininsky (6): *Introduction to Entomology; Immature Insects; Insect Pests of Field Crops; Grasshopper Biology and Management; Locusts in America and Beyond; Insecticide Update.*
7. Laramie County Master Gardener Training (Cheyenne, WY, February). Title: *Insects and Other Arthropods in the Garden* (with S. Schell).
8. Uinta County Master Gardener Training (Evanston, WY, February). Title: *Insects and Other Arthropods in the Garden* (with S. Schell).
9. USDA-APHIS-PPQ Grasshopper Management New Mexico Train-the-Trainers Workshop (Las Cruces, NM, April, with S. Schell). Titles presented by A. Latchininsky (4).
10. Butterfly presentation for Albany County Public Library Summer Reading Program for Children (Laramie, WY, June). Delivered by S. Schell and K. VanDyke.
11. USDA-APHIS-PPQ Grasshopper Management North Dakota Train-the-Trainers Workshop (Flasher, ND, November, with S. Schell). Titles presented by A. Latchininsky (5).
12. Cheyenne Seed and Weed Garden Club Invited Presentation (Cheyenne, WY, November, with S. Schell). Title: *Insects in the Garden: Pets or Pests?*

13. Pesticide Safety and Application (UW Class – Initial Pesticide Applicator Training, December). Title: *Field Crop Pest Control*.
14. Pesticide Safety and Application (UW Class – Initial Pesticide Applicator Training, December). Title: *Pests of Human Health*.
15. Wyoming Science Olympiad “Don’t Bug Me” judging (Casper, WY, April – S. Schell).
16. Wyoming State Fair Entomology project judging (Douglas, WY, July – K. Vandyke).

International Extension Training delivered:

17. Tbilisi State University, Republic of Georgia. Title: *Methods of insect collecting and preserving* (March).
18. Georgian Institute for Plant Protection, Tbilisi, Republic of Georgia. Title: *Italian locust survey and density assessment* (May).
19. Uzbek Institute for Plant Protection, Tashkent, Republic of Uzbekistan. Title: *Field demonstration of vehicle-mounted atomizer sprayer for locust control* (June).

2005 (18 events; titles presented by A. Latchininsky: 36)

1. Commercial Pesticide Applicator Recertification School (Casper, WY, January). Title: *Insecticide Update*.
2. Wyoming Growers and Groundkeepers Association 22nd Annual Conference (Casper, WY, January). Title: *Pests of Trees and Shrubs*.
3. Park County Master Gardener Training (Powell, WY, February). Title: *Insects and Other Arthropods in the Garden*.
4. “A Science Roadmap for Agriculture:” Seventh Annual Food and Agricultural Science and Education Exhibition on Capitol Hill organized by the National Association of State Universities and Land-Grant Colleges (Washington, DC, March). Title: *Fountain of Youth, Pied Piper, and White Muscardine, or Novel Approaches to Grasshopper Management in the West*.
5. Laramie County Master Gardener Training (Cheyenne, WY, March). Title: *Insects and Other Arthropods in the Garden*.
6. Sweetwater County Advanced Master Gardener Training (Rock Springs, WY, March). Titles (2): *Yard and Garden Insecticide Update; Insects and Other Arthropods in the Garden*.
7. Uinta and Sweetwater Counties Public Meeting on Pest Management (Lyman, WY, March). Titles (2): *Grasshoppers in Wyoming: Their Biology and Management; White Satin Moth Biology and Control*.
8. Fremont County Master Gardener Training (Riverton, WY, March). Title: *Insects and Other Arthropods in the Garden*.
9. Campbell/Weston County Advanced Master Gardener Training (Moorcroft, WY, March). Title: *Yard and Garden Insecticide Update*.
10. Yellowstone County Master Gardener Training (Jackson Hole, WY, March). Title: *Insects and Other Arthropods in the Garden*.
11. Entomology Short Course for Wyoming Weed and Pest Specialists (Laramie, WY, April). Titles (6): *Introduction to Entomology; Insect Pests of Field Crops; Mosquitoes in Wyoming, Grasshopper Biology and Management; Locusts and RAATs Overseas; Insecticide Update*
12. Brush Creek National Forest Visitor Center (Saratoga, WY, June). Title: *Butterflies and Moths in Wyoming*.
13. UW CES Master Gardener Train-the-Trainers Workshop (Laramie, WY, November). Title: *Arthropod Identification*.

Regional Extension Training delivered

14. EPA Region 8 Pesticide Inspector Training (Cody, WY, April). Title: *Reduced Agent and Area Treatments of Rangeland Grasshoppers*.
15. USDA-APHIS-PPQ Grasshopper Management Montana Train-the-Trainers Workshop (Billings, MT, April, Titles presented: 4).
16. USDA-APHIS-PPQ Grasshopper Management Oregon Train-the-Trainers Workshop (Pendleton, OR, May, Titles presented: 4).

17. USDA-APHIS-PPQ Grasshopper Management Colorado Train-the-Trainers Workshop (Craig, CO, May, Titles presented: 4).
18. USDA-APHIS-PPQ Grasshopper Management North Dakota Train-the-Trainers Workshop (Grassy Butte, ND, Titles presented: 4).

2004 (20 events; titles presented by A. Latchininsky: 33)

1. Commercial Pesticide Applicator Recertification School (Casper, WY, January). Title: *Insecticide Update*.
2. Wyoming Growers and Groundkeepers Association 21st Annual Conference (Casper, WY, January). Titles (2): *Arthropod Identification; Insects in the Garden: Pests or Pets*.
3. Fremont County and Wind River Reservation Farm & Ranch Days (Riverton, WY, February). Title: *Keeping the Grasshoppers from Eating You Out of House and Home*.
4. Uinta and Sweetwater Counties Grasshopper Management Seminar (Lyman, WY, February). Title: *Efficient Methods of Grasshopper Survey and Control*.
5. Natrona County Master Gardener Course (Casper, WY, March). Title: *Training on Arthropod Identification*.
6. Living on Small Acreages UW CES program (Riverton, WY, April). Title: *Grasshopper Identification and Management*.
7. Fremont County Master Gardener Course (Riverton, WY, April). Title: *Training on Arthropod Identification*.
8. Wyoming Weed & Pest Conference (Newcastle, WY, March). Title: *Grasshopper Survey and Management* (with S. Schell).
9. Niobrara County Grasshopper Management Seminar (Lusk, WY, April). Title: *Efficient Methods of Grasshopper Survey and Control*.
10. Goshen County Grasshopper Management Seminar (Torrington, WY, April). Title: *Efficient Methods of Grasshopper Survey and Control*.
11. Fremont County Grasshopper Management Seminar (Lander, WY, April). Title: *Grasshopper Management on Irrigated Pastures and Hayfields*.
12. Wyoming Mosquito Identification and Control Workshop (Riverton, WY; March). Title: Bio-ecology and habitats of Wyoming mosquitoes.
13. Uinta County Pest Management Seminar (Lyman, WY, August). Title: *Efficient Methods of Grasshopper and White Satin Moth Control*.
14. NRCS No-tillage Workshop (Riverton, WY, November). Title: *Insect Pest Problems in No-Till Crops*.
15. Converse County Pest Management Workshop (Douglas, WY, December). Titles (3): *Alfalfa Weevil, Cutworms; and Grasshopper Management* (with S. Schell).

Regional Extension Training delivered

16. USDA-APHIS-PPQ Grasshopper Management Train-the-Trainers Workshop (North Platte, NE, March, with S. Schell). Titles delivered:4.
17. USDA-APHIS-PPQ Grasshopper Management Train-the-Trainers Workshop (Steamboat Springs, CO, April, with S. Schell). Titles delivered:4.
18. USDA-APHIS-PPQ Grasshopper Management Train-the-Trainers Workshop (Prineville, OR, April, with S. Schell). Titles delivered:4.
19. USDA-APHIS-PPQ Grasshopper Management Train-the-Trainers Workshop (Helena, MT, April, with S. Schell). Titles delivered:4.
20. USDA-APHIS-PPQ Grasshopper Management Train-the-Trainers Workshops (Rapid City, SD, April, with S. Schell). Titles delivered:4.

2003 (10 events; titles delivered by A. Latchininsky: 13)

1. 59th Wyoming Weed and Pest Annual Conference and Business Meeting (Cheyenne, WY, November). Title: *Grasshopper Management in Wyoming* (with S. Schell).
2. USDA Cooperative Agricultural Pests Survey Workshop on Exotic Weeds and Pests (Casper, WY, November). Title: *Pests That We Don't Have... Yet*.

3. USDA Cooperative Agricultural Pests Survey Workshop on Exotic Weeds and Pests (Riverton, WY, October). Title: *Pests That We Don't Have... Yet.*
4. University of Wyoming Cooperative Extension Sustainable Management of Rangeland Resources Initiative Team Meeting (Casper, WY, October). Title: *Grasshopper Management in Wyoming.*
5. University of Wyoming Cooperative Extension Profitable and Sustainable Agriculture Systems Initiative Team Meeting (Casper, WY, October). Title: *Grasshopper Management in Wyoming.*
6. University of Wyoming Cooperative Extension Service Specialists Meeting (Laramie, WY, October). Title: *Outline of Extension Entomology Activities* (with S. Schell).
7. Wyoming Master Gardener Program Meeting (Laramie, WY, September). Title: *Extension Entomology and Master Gardener Program* (with S. Schell).
8. Fremont County Grasshopper Management Seminar (Lander, WY, August). Title: *Reduced Agent and Area Treatments of Grasshoppers in Irrigated Hayfields* (with Sc. and Sp. Schell).
9. USDA-APHIS-PPQ scouts training seminar (Cheyenne, WY, June). Title: *Grasshoppers in Wyoming: Identification, Survey, and Population Management.*
10. Regional Grasshopper Management Workshop (Billings, MT, April). Six-hour training seminar (with J. Lockwood and S. Schell; titles delivered: 4).

Arthropod Identification

Samples processed by Wyoming Arthropod Diagnostic Clinic since 2003 (with Scott Schell): 3,372, including:

2014: 378; 2013: 401; 2012: 320; 2011: 357; 2010: 333; 2009: 302; 2008: 351; 2007: 283; 2006: 231; 2005: 221; 2004: 135; 2003: 60.

Pest Management Advice to Clientele

Phone calls, e-mails and walk-in requests answered since 2003 (with Scott Schell): 5,538, including:

2014: 650; 2013: 622; 2012: 598; 2011: 651; 2010: 402; 2009: 440; 2008: 743; 2007: 507; 2006: 605; 2005: 128; 2004: 112; 2003: 80

Master Gardener Trainings in Entomology Delivered (42 with total attendance 582)

2014: 1 with 6 in attendance (other trainings were delivered by S. Schell)

2013: 0 (trainings were delivered by S. Schell)

2012: 1 with 12 in attendance

2011: 6 with total attendance 78

2010: 0 (sabbatical year; MG trainings were delivered by S. Schell)

2009: 6 with total attendance 87

2008: 8 with total attendance 111

2007: 4 with total attendance 65

2006: 5 with total attendance 71

2005: 8 with total attendance 92, including one Train-the-Trainer session

2004: 3 with total attendance 60

Horticulture Compressed Video Sessions Attended: 28 (program discontinued in 2008)

2007: 5; 2006: 7; 2005: 5; 2004: 5; 2003: 6

International Outreach and Trainings (representative selection)

2014 – Training on IPM methods of locust and grasshopper control. Merida, Yucatan, Mexico (delivered to 50

- specialists of Ministry of Agriculture, Plant Protection Services).
- 2014 – FAO UN Training Course on methods of locust survey and information management. Nukus, Uzbekistan (5-day program delivered to 15 specialists from national locust control service of Russia Uzbekistan).
- 2013 – FAO UN International Training Course on methods of locust survey and information management. Astrakhan, Russia (5-day program delivered to 19 specialists from national plant protection services of Russia and Kazakhstan).
- 2012 – FAO UN Training Course on methods of locust survey and information management. Jalal-Abad, Kyrgyzstan (5-day program delivered to 16 specialists from national plant protection service).
- 2011 – Review of current strategies of grasshopper control in the US. FAO UN Technical Workshop on Locust Control in Tbilisi, Georgia (delivered to 28 plant protection specialists from 10 countries).
- 2010 – Review of current strategies and methods of locust control; Locust spraying: ULV vs. EC, Human Health and Environmental Safety. FAO UN sponsored Workshop on Locust Control in Dushanbe, Tajikistan (delivered to 35 plant protection specialists from 9 countries).
- 2009 – Locust control in Central Asia and Caucasus. FAO UN Regional Consultation on locust management in Almaty, Kazakhstan (delivered to 30 locust control specialists from 9 countries).
- 2008 – Opportunities for Remote Sensing in Red locust management in East Africa (delivered to 15 specialists from IRLCO-SCA in Ndola, Zambia).
- 2007 – National Anti-locust center workshop in Nukus, Uzbekistan. Title: Migratory locust: biology, ecology, and management (delivered to 21 specialists from Uzbek locust control service).
- 2007 – Ministry of Agriculture of Uzbekistan special seminar in Tashkent, Uzbekistan. Title: International coordination in locust management (delivered to 13 specialists from the Ministry).
- 2007 – National Anti-locust center workshop in Qarshi, Uzbekistan. Title: Moroccan locust: biology, ecology, and management (delivered to 22 specialists from Uzbek locust control services).
- 2007 – Applications of Remote Sensing to locust management in Mexico (delivered to 25 plant protection specialists in Tamaulipas, Mexico).
- 2006 – Training on identification and selection of pathogenic fungi in insect pest control (delivered to 16 university students and plant protection specialists in Tbilisi, Georgia).
- 2006 – Training on Italian locust survey and density assessment. Georgian Institute for Plant Protection, Tbilisi, Republic of Georgia (delivered to 15 specialists from National Food Agency).
- 2005 – Train-the-Trainers Desert locust biology and management program (in French, under contract with FAO UN). Delivered to over 600 locust officers in 21 countries in W. Africa.
- 2004 – Introduction to Remote Sensing, GIS and GPS for pest managers in Uzbekistan (in Russian, under contract with GTZ). Delivered to 30 plant protection specialists in Nukus, Uzbekistan.

RESEARCH PRESENTATIONS – 205 (*designates invited)

2014 (21).

- *Applications of remote sensing and GIS to locust monitoring worldwide. Invited speaker at Dept. of Space Studies, University of North Dakota, Space studies colloquium series. Grand Forks, ND, April 29.
- *Migratory locust survey in the Aral Sea zone in August 2014. FAO UN annual workshop on locust management in Caucasus and Central Asia. Tbilisi, Georgia, November 19.
- *Initial analysis of diversity and abundance of non-target arthropod fauna collected during the 2013 field trial to determine the effective field dose of Chlorantraniliprole (Prevathon®) for control of rangeland grasshoppers. National Grasshopper Management Board annual meeting 2014. Denver, CO, January 22.
- *A case of non-diapausing embryonic development of *Melanoplus bivittatus*. National Grasshopper Management Board annual meeting 2014. Denver, CO, January 22.
- *Remote sensing and locusts: the 21st century science vs. the biblical enemy of agriculturists. Dept. of Space Studies Colloquium series, Univ. of North Dakota, Grand Forks, ND, April 29.
- Grasshopper invasions: a threat to biodiversity? FAO UN training course on locust monitoring and information management. Nukus, Uzbekistan, August 13.
- Satellite data applications to locust and grasshopper ecology and monitoring. FAO UN training course on locust monitoring and information management. Nukus, Uzbekistan, August 12.

- Non-target effects of grasshopper treatments. FAO UN training course on locust monitoring and information management. Nukus, Uzbekistan, August 12.
- Aral Sea ecological catastrophe. FAO UN training course on locust monitoring and information management. Nukus, Uzbekistan, August 13.
- GIS in locust and grasshopper monitoring and management. FAO UN training course on locust monitoring and information management. Nukus, Uzbekistan, August 12.
- Remote sensing information for mapping the Migratory locust habitats in Central Asia. FAO UN training course on locust monitoring and information management. Nukus, Uzbekistan, August 13.
- Locust spray technology: ULV or EC? FAO UN training course on locust monitoring and information management. Nukus, Uzbekistan, August 14.
- Strategies and technologies in locust management: the state of the art. FAO UN training course on locust monitoring and information management. Nukus, Uzbekistan, August 11.
- Natural enemies of locusts and grasshoppers. FAO UN training course on locust monitoring and information management. Nukus, Uzbekistan, August 11.
- Locust bio-ecology: Asian, Moroccan and Italian locusts in Central Asia. FAO UN training course on locust monitoring and information management. Nukus, Uzbekistan, August 11.
- World locust outlook. FAO UN training course on locust monitoring and information management. Nukus, Uzbekistan, August 11.
- *Locusts and grasshoppers in the world. Workshop on locust and grasshopper management in Yucatan. Merida, Mexico, October 15.
- *Applications of Landsat data for locust monitoring. Workshop on locust and grasshopper management in Yucatan. Merida, Mexico, October 15.
- *Locust and grasshopper IPM. Workshop on locust and grasshopper management in Yucatan. Merida, Mexico, October 16.
- *The Aral Sea ecological disaster. National Seminar on locust and grasshopper control in Merida, Yucatan, Mexico, October 17.
- *RAATs strategy for locust and grasshopper control. Workshop on locust and grasshopper management in Yucatan. Merida, Mexico, October 16.
- 2013 (20).**
- *Determination of effective field dose rate of Chlorantraniliprole (Prevathon®) for control of rangeland grasshoppers. National Grasshopper Management Board annual meeting 2013. Denver, CO, January 23.
- *The locusts are coming! National Grasshopper Management Board annual meeting 2013. Denver, CO, January.
- *Locusts, grasshoppers and climate change. Seminar at USDA-APHIS-CPHST, Phoenix, AZ, February 1.
- Can acridids threaten the biodiversity? FAO UN International training course on locust monitoring and information management. Astrakhan, Russia, May 14.
- Application of satellite data to locust and grasshopper ecology and monitoring. FAO International training course on locust monitoring and information management. Astrakhan, Russia, May 13.
- Diflubenzuron and flies: killing two birds with one stone? FAO International training course on locust monitoring and information management. Astrakhan, Russia, May 13.
- Ecological catastrophe of the Aral Sea and food security in the region. FAO International training course on locust monitoring and information management. Astrakhan, Russia, May 14.
- GIS in locust monitoring and management. FAO International training course on locust monitoring and information management. Astrakhan, Russia, May 12.
- Mapping the Migratory locust habitats using remote sensing information. FAO International training course on locust monitoring and information management. Astrakhan, Russia, May 12.
- Locust spraying technology: ULV vs. EC. FAO International training course on locust monitoring and information management. Astrakhan, Russia, May 14.
- Current strategies and technologies in locust management: the state of the art. FAO International training course on locust monitoring and information management. Astrakhan, Russia, May 14.
- Locust natural enemies. FAO International training course on locust monitoring and information management. Astrakhan, Russia, May 12.
- Locust biology and ecology: Asian, Moroccan and Italian locusts. FAO International training course on locust

- monitoring and information management. Astrakhan, Russia, May 12.
- Locusts and us. Overview of locust situation worldwide and in CCA. FAO International training course on locust monitoring and information management. Astrakhan, Russia, May 13.
- *Locust and grasshopper control worldwide: an introduction. Grasshopper control: a North American perspective. 11th International Congress of Orthopterology, Kunming, China, August 12.
- *Application of remote sensing to locust monitoring and management: accomplishments, problems and perspectives. 20th Conference de la Sociedad Latinoamericana de Percepcion Remota y Sistemas de Informacion Espacial (SELPER) – Plenary speaker. San Luis Potosi, Mexico, October 22.
- *Reduced Agent and Area Treatments strategy for grasshopper and locust control. 20th Conference de la Sociedad Latinoamericana de Percepcion Remota y Sistemas de Informacion Espacial (SELPER) – Plenary speaker. San Luis Potosi, Mexico, October 24.
- *Remote sensing applications to locust and grasshopper monitoring. FAO UN Workshop on GIS for locust management in CCA. Tashkent, Uzbekistan, November 6.
- *Application of GIS to pest monitoring and management in arid landscapes. Water, Ecosystems and Sustainable Development in Arid and Semi-Arid Zones (WATARID 4) planning conference. Paris, France, December 13.
- *Outbreak of Asian Migratory locust in the Aral Sea zone in 2012-2013. FAO UN annual workshop on locust management in CCA. Tashkent, Uzbekistan, November 13.
- 2012 (24).**
- *Comprehensive assessment of values of western rangelands. National Grasshopper Management Board annual meeting 2012. Denver, CO, January 24.
- *FAO Five-Year locust program in Caucasus and Central Asia. National Grasshopper Management Board annual meeting 2012. Denver, CO, January 24.
- *Remote Sensing and Locusts: the Space Technology vs. the Ancient Enemy of Agriculturists. Center of Parasitological and Vector Studies (CEPAVE), La Plata, Argentina. February 13.
- *Peril in a Tropical Paradise: Grasshopper invasion impacts biodiversity on a tiny NW Hawaiian island. Museum of Natural History, University of La Plata, Argentina. February 15.
- *Mysteries of the Bird Island: Grasshopper invasion threatens biodiversity on a tiny NW Hawaiian island. Colorado Mesa University, Grand Junction, CO. February 22.
- *Geospatial tools and locust IPM: The current state of the art. 7th International IPM Symposium in Memphis, TN. March 27.
- *Remote sensing applications to locust monitoring and management in the Aral Sea region of Central Asia. 7th International IPM Symposium in Memphis, TN. March 27.
- *Rangeland grasshopper IPM program makes a significant economic impact on Wyoming agriculture. 7th International IPM Symposium in Memphis, TN. March 27. Poster presentation.
- Locusts and us: A review of locusts in Central Asia. FAO UN training course on locust monitoring and information management. Jalal-Abad, Kyrgyzstan, April 16.
- Biology and ecology of the Moroccan locust in Central Asia. FAO UN training course on locust monitoring and information management. Jalal-Abad, Kyrgyzstan, April 16.
- Biology and ecology of the Italian locust in Central Asia. FAO UN training course on locust monitoring and information management. Jalal-Abad, Kyrgyzstan, April 16.
- Strategies and methods of locust control. FAO UN training course on locust monitoring and information management. Jalal-Abad, Kyrgyzstan, April 16.
- Anti-locust spraying: ULV or full-volume EC? FAO UN training course on locust monitoring and information management. Jalal-Abad, Kyrgyzstan, April 17.
- Basics of locust surveying. FAO UN training course on locust monitoring and information management. Jalal-Abad, Kyrgyzstan, April 17.
- Analysis of locust information and locust dynamics forecasting. FAO UN training course on locust monitoring and information management. Jalal-Abad, Kyrgyzstan, April 17.
- Overview of Remote Sensing and GIS in locust monitoring. FAO UN training course on locust monitoring and information management. Jalal-Abad, Kyrgyzstan, April 17.
- The Aral Sea ecological catastrophe and locust management in the region. FAO UN training course on locust

- monitoring and information management. Jalal-Abad, Kyrgyzstan, April 17.
- *Remote Sensing and GIS in locust monitoring. Working Group on ecological safety, Permanent Commission on Agriculture and Ecology, Inter-Parliamentary Assembly of Countries Members of the Commonwealth of Independent States. St. Petersburg, Russia. May 24.
 - The Aral Sea catastrophe: is one of the world's greatest environmental disasters reversible? UW Faculty Senate Speaker series, Fall 2012 Award lecture, UW-Casper College, Casper, WY, October 1.
 - E-Committee on documentation: update on three locust monographs, and bibliography. FAO UN Workshop on locust management in Caucasus and Central Asia. Bishkek, Kyrgyzstan. November 14.
 - Training on locust monitoring and information management in Kyrgyzstan and joint Kyrgyz-Uzbek transborder locust survey in April, 2012. FAO UN Workshop on locust management in Caucasus and Central Asia, Bishkek, Kyrgyzstan. November 15.
 - E-Committee on pesticides: pesticides registered for locust control in CCA. FAO UN Workshop on locust management in Caucasus and Central Asia, Bishkek, Kyrgyzstan. November 15.
 - *Application of satellite data to agricultural pest monitoring. Working Group on Ecological Safety, Permanent Commission on Agriculture, Ecology and Natural Resources of the Interparliamentary Assembly of country members of the Commonwealth of Independent States, St. Petersburg, Russia. November 23.
 - The Aral Sea catastrophe: is one of the world's greatest environmental disasters reversible? UW Faculty Senate Speaker series, Fall 2012 Award lecture, Laramie, WY, November 29.

2011 (13).

- *Locust control in Central Asia: an update. National Grasshopper Management Board annual meeting 2011. Denver, CO, January 20.
- *Field efficacy of two North American *Metarhizium* isolates, DWR346 and F52, for grasshoppers in 2010. National Grasshopper Management Board annual meeting 2011. Denver, CO, January 20.
- *The Aral Sea Catastrophe: Is the disaster irreversible? "All Things Geography" Brown Bag Seminar Series, WyGIS and Dept. of Geography, University of Wyoming, January 28.
- *Remote Sensing applications for monitoring the ecological situation in the Aral Sea zone. International Conference on Geo-ecology, Krasnoyarsk State University, Russia, April 14.
- *Locusts and us: the 21st century science vs. the ancient enemy of agriculturists. International Conference on Fundamental Problems in Entomology, St. Petersburg State University, Russia, May 17.
- *Mapping water level and associated vegetation changes for Asian Migratory locust monitoring in the Amudarya River Delta, Uzbekistan using Landsat data. WATARID-3 International Conference, Paris, France, June 2.
- *Locust control in Central Asia: problems and perspectives. International Association of Plant Protection Sciences annual meeting, Honolulu, HI, August 7.
- *Peril in a tropical paradise: a pest invasion impacts biodiversity on a tiny NW Hawaiian island. Dept. of Ecosystem Science and Management, Research Across Disciplines seminar series, September 9.
- RAATs: do more with less. Presentation at the meeting with the delegation of Russian Ministry of Agriculture. University of Wyoming, October 13.
- *Acridid outbreak – an example of the USA. FAO UN Technical Workshop on locust management in CCA. Tbilisi, Georgia, October 19.
- *Aral Sea ecological catastrophe and food security in Central Asia. Dept. of Geography and Geo-ecology, St. Petersburg State University seminar series, St. Petersburg, Russia, November 12.
- *New science against old enemy. Dept. of Entomology, St. Petersburg State University seminar series, St. Petersburg, Russia, November 19.
- *Applications of Remote Sensing and GIS to locust monitoring and management. Working Group on Ecological Safety, Interparliamentary Assembly of CIS countries. St. Petersburg, Russia, November 2.

2010 (11).

- *Two for the price of one: grasshopper and horn fly control using Dimilin. National Grasshopper Management Board annual meeting 2010. Denver, CO, January 17.
- *FAO UN locust project in Central Asia and Caucasus. National Grasshopper Management Board annual meeting 2010. Denver, CO, January 18.
- *Remote Sensing and Locusts. University of Arizona / USDA ARS Arid-Land Agricultural Research Center,

- Mariposa, AZ seminar, March 18.
- *The Aral Sea catastrophe: a race for “unsustainable” development. Is the disaster irreversible? Ecological applications seminar series. Ecole Pratique des Hautes Etudes / The Sorbonne University, Paris, France, May 29.
 - *Applications of Remote Sensing in locust control. CIRAD - Maison de Télédétection Conference, Montpellier, France, June 10.
 - *Locust management: the dimensions of complexity. The Sorbonne University, Paris, France. Institute of Complex Systems, Complexity in Ecology and Evolution ISC-PIF Seminar series, June 29.
 - *Grasshopper outbreak challenges conservation status of a small Hawaiian Island. National Museum of Natural History, Paris, France, June 29.
 - *Locusts: Can we defeat the Biblical enemy? Dept. of Renewable Resources, University of Wyoming *Research Across Disciplines* Seminar, September 3.
 - *La télédétection dans la lutte contre les criquets ravageurs : La science du XXIème siècle contre les anciens ennemis des agriculteurs. Moroccan locust control delegation visit to University of Wyoming, September 22.
 - Control of horn flies with Dimilin, as used in grasshopper control. Moroccan locust control delegation visit to University of Wyoming. September 22.
 - Grasshopper applied research at the University of Wyoming. Moroccan locust control delegation visit to University of Wyoming, September 23.
- 2009 (17).**
- *Sustainability of grasshopper management and support through CARMA. Hawaii 42nd International Conference on Systems Sciences. The mini-track "Information systems for sustainable development," January 6.
 - *Field efficacy of a North American *Metarhizium* isolate, DWR346 for grasshoppers. National Grasshopper Management Board annual meeting 2009. Denver, CO, January 21.
 - *Locusts in Central Asia. National Grasshopper Management Board annual meeting 2009. Denver, CO, January 22.
 - *CARMA expansion to CO, OR and NM. National Grasshopper Management Board annual meeting 2009. Denver, CO, January 22.
 - Rangeland grasshopper control using RAATs strategy. UW annual ENTO Short Course, February 10.
 - *CARMA: Platform freedom for a graphical Lisp application through Armed Bear Common Lisp. International Lisp Conference 2009, MIT, Cambridge, MA. March 23.
 - *The Use of Satellite Data to Improve Locust Monitoring and Management in Central Asia. 6th International IPM Symposium, Portland, OR, March 25.
 - Detection and IPM for Black Grass Bugs. 93rd Annual Meeting of ESA-Pacific Branch. San Diego, CA, March 30.
 - Killing two birds with one stone: non-target effect of Dimilin on horn flies. 93rd Annual Meeting of ESA-Pacific Branch. San Diego, CA, March 31.
 - Field efficacy of a new North American fungus *Metarhizium anisopliae* for grasshoppers on rangeland. 93rd Annual Meeting of ESA-Pacific Branch. San Diego, CA, March 31.
 - *Applications of Remote Sensing to Migratory locust monitoring in Central Asia. WATARID-2 International Conference in Tehran, Iran, May 5.
 - *Gray bird grasshopper *Schistocerca nitens* on a NW Hawaiian Island: a challenge to conservation. 10th International Congress of Orthopterology, Antalya, Turkey, June 21.
 - *Mapping potential Italian locust (*Calliptamus italicus*) habitats in NE Kazakhstan with satellite imagery. 10th International Congress of Orthopterology, Antalya, Turkey, June 22.
 - *Evaluation of entomopathogenic fungi for locust control in Georgia. 10th International Congress of Orthopterology, Antalya, Turkey, June 23.
 - *Remote sensing applications to pest monitoring in Northern Great Plains and Central Asia. Annual Meeting of Upper Midwest Aerospace Consortium, Grand Forks, ND. August 11.
 - Analytical report on locust situation and management in Central Asia and Caucasus. FAO UN Regional Consultation on Locust Management in CCA, Almaty, Kazakhstan, October 28.
 - Eye in sky: Optimizing locust monitoring using remote sensing tools. University of Sydney, Australia, School of Biological Sciences, Animal-Plant Interactions Group Seminar series, December 11.

2008 (11)

Remote sensing data for management locust pest problems near Aral Sea, Central Asia. May 1, Portland, OR, ASPRS Annual conference.

*Application of Remote Sensing data to locust habitat monitoring. June 6, Tamaulipas, Dept. of Agriculture, Ciudad Victoria, Mexico.

*Satellite imagery in Asian Migratory locust habitat monitoring and management. July 3, Plant Protection Institute, Tashkent, Uzbekistan.

*Grasshopper invasion threatens biodiversity of a small Hawaiian Island of Nihoa. August 26, University of Sydney, School of Biological Sciences (Sydney, NSW, Australia).

*Locust control worldwide. August 28, Australian Plague Locust Commission expert panel at research planning session (Canberra, ACT, August).

Schistocerca nitens on Nihoa. October 31, UW Dept. of Plant Sciences Seminar.

*Moroccan locust biology and ecology. September 24, Institute of Deserts, Turkmenistan Ministry of Nature Protection, Ashkhabad, Turkmenistan.

*Use of remote sensing and GPS technologies for locust habitat monitoring. September 25, Kazakh Institute for Plant Protection, Almaty, Kazakhstan.

*Remote sensing and GPS technologies in locust habitat monitoring. October 8, Center for Ecological Safety of the Russian Academy of Sciences, St. Petersburg, Russia.

Efficacy of two rates of *Metarhizium anisopliae* on grasshoppers. November 5, 64th Wyoming Weed and Pest annual conference, Riverton, WY.

Natural abundance of Stable Isotopes of common elements may help identify the larval habitat of adult mosquitoes. February 20, Wyoming Mosquito Management Association annual meeting, Laramie, WY.

2007 (19)

55th Annual meeting of the Entomological Society of America (San Diego, December 10). Title: *Grasshoppers Schistocerca nitens on a remote NW Hawaiian island: Implications for biodiversity.*

55th Annual meeting of the Entomological Society of America (San Diego, December 11). Title: *Mormon cricket control: a century-long, historical perspective* (co-author: S. Schell).

55th Annual meeting of the Entomological Society of America (San Diego, December 10). Title: *Can potential locust egg-laying habitats be identified using satellite images?* (co-author: R. Sivanpillai).

*Symposium on biological control of Central American locust; 30th Mexican National Biocontrol Congress and IOBC Meeting (Merida, Mexico, November 15). Title: *Outbreak of Grasshoppers Schistocerca nitens on Nihoa Island (NW Hawaii).*

*Symposium on biological control of Central American locust; 30th Mexican National Biocontrol Congress and IOBC Meeting (Merida, Mexico, November 15). Title: *Grasshopper control in the United States using Reduced Agent and Area Treatments (RAATs).*

*Workshop on management of Central American locust; 30th Mexican National Biocontrol Congress and IOBC Meeting (Merida, Mexico, November 11). Title: *Use of satellite images in locust habitat monitoring in Central Asia.*

Food and Agriculture Organization of the United Nations special seminar (FAO UN, Rome, Italy, November 5). Title: *Locust control in Central Asia; Use of Remote Sensing in Locust Monitoring.*

*University Paul Valery – Montpellier III (France, October 25). Title: *Report on the PhD. Dissertation of M. Alex Franc.*

*International Center for Agronomic Research for Development (CIRAD) special seminar (Montpellier, France, October 24). Title: *Schistocerca nitens on Nihoa.*

16th International Plant Protection Congress and BCPC Congress, Session 3A "Formulation and application technology for the future" (Glasgow, UK, 15-18 October). Title: *New Spraying Technologies for Locust control in Central Asia: MIGs vs Micronairs* (platform paper).

16th International Plant Protection Congress and BCPC Congress, Session 3A "Formulation and application technology for the future" (Glasgow, UK, 15-18 October 2007). Title: *Reduced Agent and Area Treatments (RAATs) of Rangeland Grasshopper Infestations Using Ultra-low Insecticide Dose Rates and Kairomonal Attractants* (poster presentation; co-author: S.Schell).

- 16th International Plant Protection Congress and BCPC Congress, Session 6E "Closing the yield gap: crop protection for poverty alleviation" (Glasgow, UK, 15-18 October 2007). Title: *Optimizing locust monitoring in Central Asia using remote sensing tools* (poster presentation; co-authors R. Sivanpillai & H. Wilps.).
- Food and Agriculture Organization of the UN and The World Bank Workshop on the Future of Biopesticides in Desert locust control (Saly, Senegal, February). Title: *Results and findings of working group 3*.
- *University of Wisconsin-Stout Applied Sciences Program seminar (Menomonie, WI, March). Title: *The Space Technology versus the Ancient Enemy of Agriculturists*.
- *Colorado State University, Dept. of Bioagricultural Sciences and Pest Management seminar (Ft. Collins, CO, March). Title: *Grasshoppers on Bird Island: Aliens, invaders, or... beneficiaries?*
- Symposium "New and emerging pests in the Pacific Northwest," 91st Annual meeting of the Pacific Branch of the Entomological Society of America (Portland, OR, March). Title: *Grasshoppers Schistocerca nitens on Nihoa Island (NW Hawaii): A threat to biodiversity or a beneficial invasion?*
- 91st Annual meeting of the Pacific Branch of the Entomological Society of America (Portland, OR, March). Title: *Locust surveys made easier with the use of remote sensing tools* (co-authors: R. Sivanpillai, H. Wilps).
- *International Workshop on remote sensing applications to locust monitoring at International Science and Technical Center (St. Petersburg, Russia, June). Title: *Use of satellite imagery for locust monitoring: accomplishments, problems and perspectives*.
- 63rd Annual Wyoming Weed and Pest Conference (Jackson Hole, WY, November). Title: *Mosquito Research at the University of Wyoming* (co-author Scott Schell).

2006 (9)

- 62nd Annual Wyoming Weed and Pest Conference (Casper, WY, November). Title: *Applied Entomological Research at the University of Wyoming*.
- National Grasshopper Management Board Annual Meeting (Denver, CO, January). Title: *Locusts in America and Beyond*.
- National Grasshopper Management Board Annual Meeting (Denver, CO, January). Title: *Efficacy of Knack® (Pyriproxyfen), an IGR, on Rangeland Grasshoppers* (with Scott Schell).
- 90th ESA Pacific Branch Annual Meeting (Maui, HI, March). Title: *Grasshopper outbreak on a small NW Hawaiian island: A threat to Biodiversity?*
- Upper Midwest Aerospace Consortium Annual Meeting (Grand Forks, ND, February). Title: *Mapping locust habitats near the Aral Sea* (with R. Sivanpillai).
- 7th Inter-regional Entomological Meeting at Siberian Zoological Conference (Novosibirsk, Russia, September). Title: *The locusts: the beginning of the coming century* (with M. Sergeev).
- *Tbilisi State University, Department of Ecology Seminar (Tbilisi, Republic of Georgia, March). Title: *Locusts and remote sensing: the new science against biblical pest*.
- *Uzbek Plant Protection Institute Seminar (Tashkent, Republic of Uzbekistan, June). Title: *Remote sensing as a tool for locust habitat mapping*.
- *GTZ Seminar (Tashkent, Republic of Uzbekistan, September). Title: *MODIS satellite and the Migratory locust habitats* (with R. Sivanpillai).

2005 (17)

- National Grasshopper Management Board Annual Meeting (Aurora, CO, January). Titles (3): *Optimization of ATV-RAATs using adjuvants* (with Scott Schell); *Beauveria bassiana against Camnula pellucida in irrigated pastures* (with Scott Schell and Stefan Jaronski); *Hunger on the wings: a current upsurge of the Desert locust in Africa*.
- *Upper Midwest Aerospace Consortium Annual Meeting (February; Grand Forks, ND). Title: *Mapping Locust Habitats in Central Asia: Applications of Remote Sensing to Pest Monitoring* (with R. Sivanpillai).
- *"Novel Insecticides" symposium at the ESA Pacific Branch Annual Meeting (Monterey Co., CA, February). Title: *Optimized Parameters for Rangeland Grasshopper Treatments with ATVs Using Ultra-Low Insecticide Coverages and Kairomonal Attractants*.
- *CSU Dept. of Bioagricultural Sciences and Pest Management Seminar Series (Ft. Collins, CO, March). Title: *Locusts - The Eight Plague: Old Testament versus New Science*.

- CSU Forest Entomology working group (Ft. Collins, CO, March). Title: *Mountain Pine Beetle in Medicine Bow National Forest* (with D. Dean).
- American Society of Photogrammetry and Remote Sensing 2005 Annual Conference (Baltimore, MD, March). Title: *Mapping locust habitat in Kazakhstan using Landsat ETM imagery* (with R. Sivanpillai and K. Driese).
- KSU Dept. of Entomology Seminar Series (Manhattan, KS, April). Title: *Desert locusts and International Amnesia: Are We Doomed to Repeat History?*
- Workshop to Identify Research and Mitigation Measures to Address the *Schistocerca nitens* Crisis on Nihoa Island, NW Hawaiian Islands (Honolulu, HI, April). Title: *Schistocerca nitens biology, ecology and management options* (with Jeff Lockwood). Funded by NOAA, Hawaii Wildlife Fund, The Conservation Council for Hawaii, and the Hawaii Audubon Society.
- 9th International Conference of the Orthopterists' Society (Canmore, Canada, August). Title: *Locust and grasshopper management in the countries of the Soviet Union: new challenges*.
- 9th International Conference of the Orthopterists' Society (Canmore, Canada, August). Title: *Optimized parameters for rangeland grasshopper treatments using ultra-low insecticide coverages and kairomonal attractants* (with S. Schell).
- 9th International Conference of the Orthopterists' Society (Canmore, Canada, August). Title: *The Robert Pfadt Grasshopper Collection: A half century in the making* (with S. Schell and W. Ohnesorg).
- *University of North Dakota graduate level class *Remote Sensing in Developing Countries* (Grand Forks, ND, October). Title: *Locusts: Hunger on the wings in Africa. Face-to-face and View from Space*.
- *University of North Dakota graduate level class *Remote Sensing in Developing Countries* (Grand Forks, ND, October). Title: *Applications of Remote Sensing to locust monitoring in Asia and Africa*.
- Second All-Russian Plant Protection Congress (St. Petersburg, Russia, December). Title: *Lessons from the Desert locust outbreak in Africa 2003-2005* (with M. Sergeev).
- ESA Annual Meeting (Ft. Lauderdale, FL, December). Title: *Optimized parameters for rangeland grasshopper treatments using ultra-low insecticide coverages and attractants* (with S. Schell).
- 2004 (10)**
- National Grasshopper Management Board Annual Meeting (Aurora, CO, January). Titles (3): *Peter Pan and the Pied Piper: How Young Grasshoppers are Lured to Places Where They Never Grow Old* (with S. Schell and J. Lockwood); *Continued Field Evaluation of Canola Oil as an Attractive Carrier for Beauveria bassiana* (with S. Jaronski, S. Schell, and A. Chernysh); *Optimizing Efficacy of All Terrain Vehicle – Reduced Agent and Area Treatments (ATV-RAATs) by varying coverage, adjuvants, and rate* (with S. Schell and J. Lockwood).
- *15th International Congress of Plant Protection (Beijing, China, May). Titles: *Novel Approaches for Controlling Acridid Pests Using Biocontrol Agents and IGRs; Locust and Grasshopper Population Monitoring in Kazakhstan and Other Countries of the Former Soviet Union: A Time for Changes*. /This meeting is international in scope and by special invitation only/.
- *Upper Midwest Aerospace Consortium Annual Meeting (March; Grand Forks, ND). Title: *Locusts in Kazakhstan: Applications of Remote Sensing to Pest Monitoring*.
- *Colorado State University, Natural Resource Ecology Laboratory Seminar Series (October; Fort Collins, CO). Title: *Applications of Remote Sensing and GIS to Locust and Grasshopper Ecology and Management*.
- 2003 (3)**
- *CIRAD-GTZ-UW Conference in Montpellier, France, September. Title: *Replacing Insecticides with Information: Improving Locust Surveys in Kazakhstan with Remote Sensing* at the (with R. Sivanpillai)
- *Upper Midwest Aerospace Consortium teleconference. Title: *Application of Remote Sensing to Pest Management in Kazakhstan* at the (March).
- *Food and Agriculture Organization of the United Nations Regional Locust control seminar in Termez, Uzbekistan, April (with J. Lockwood). Title: *Reduced Agent and Area Treatments for Control of Rangeland Grasshoppers and Italian Locust – the Most Economically Important Acridid Species in Central Asia* at the
- 2002(1)**

Symposium on Insect Conservation in Grassland Ecosystems at 7th European Congress of Entomology (Thessaloniki, Greece, October 2002). Title: *Spatial analysis of locust and grasshopper infestations in Eurasia using remote sensing and GIS methods.*

2001 (4)

*Symposium on Comparative Ecology and Faunistics of grasshoppers in the grasslands of the world at the International Conference on Orthopteroid Insects (8th Meeting of the Orthopterists' Society, Montpellier, France, August 2001). Title: *Application of remote sensing and GIS to grasshopper ecology in temperate Eurasia and North America: how powerful is the tool?*

*Office of International Research and Development, Virginia Tech University (Blacksburg, VA, March 2001). Title: *Lessons of the 2000 pesticide anti-locust campaign in Kazakhstan and Russia: An infamous entry for the Guinness book of records?*

*USAID Headquarters presentation (Washington, D.C., March 2001). Title: *Locust and grasshopper management in the CIS countries.*

*Invited speaker at the Annual National Grasshopper Management Board Meeting (Aurora, CO, January 2001). Title: *Anti-locust campaign 2000 in Kazakhstan and Russia.*

2000 (1)

*Annual Meeting of the National Grasshopper Management Board (Aurora, CO, January 2000). Title: *Grasshopper plague in the countries of the former Soviet Union in 1999 and the forecast for the year 2000.*

1999 (6)

*Australian Plague Locust Commission (APLC), First Annual Workshop of the Association for Applied Acridology International (AAAI) on New Methods of Locust Control (Canberra/Griffith, Australia, May 1999). Title: *International scientific collaboration in applied acridology: new opportunities and old problems.*

*Regional Seminar on New Methods of Locust and Grasshopper Management (Astana, Kazakhstan, January 1999). Title: *Current methods of chemical plant protection.*

*Regional Seminar on New Methods of Locust and Grasshopper Management (Pavlodar, Kazakhstan, January, 1999). Title: *Comparative efficacy of different strategies of locust and grasshopper control.*

*Regional Seminar on New Methods of Locust and Grasshopper Management (Tashkent, Uzbekistan, January 1999). Title: *Most promising insecticides for locust control.*

*Regional Seminar on New Methods of Locust and Grasshopper Management (Kislovodsk, Russia, June 1999). Title: *Efficient strategies of controlling grasshoppers without environmental hazards.*

*Regional Seminar on New Methods of Locust and Grasshopper Management (Volgograd, Russia, June 1999). Title: *Barrier treatments as a new approach to control locust populations.*

1998 (3)

Member of the University of Wyoming Graduate Student Team at the Student debates on *Ethical Issues in Entomology and Phytopathology* during the Entomological Society of America Annual Meeting (Las Vegas, NV, December 1998).

*The Orthopterists' Society conference during the Entomological Society of America Annual Meeting (Las Vegas, NV, December 1998). Title: *Environmental factors affecting the population dynamics of grasshoppers in East Siberia: an application of the Remote Sensing and Geographic Information Systems.*

*International Conference on Locust and Grasshopper Management in the Countries of the Former USSR (Almaty, Kazakhstan, September 1998). Title: *Barrier treatments with fipronil - a promising strategy for grasshopper control.*

1997 (3)

7th Orthopterists' Society International Conference (Cairns, Australia, October 1997). Titles (3): *Landscape ecology and grasshopper population dynamics in Siberia: an application of the Geographic Information systems and Remote Sensing, Advances in grasshopper biological control in Russia* (with M. Sergeev), and *New strategies of grasshopper pest management in Siberia.* /This meeting was international in scope and by special invitation only/.

*Annual Meeting of the National Grasshopper Management Board (Rapid City, SD, January 1997). Title: *Overview of Acridid pest management in the countries of the former Soviet Union.*

*International Meeting of Locust Experts (Annecy, France, September 1997). Title: *Environmental effects of the pest management programs in the former Soviet Union.*

1996 (2)

*Annual Meeting of the National Grasshopper Management Board (Rapid City, SD, January 1996). Title: *Barrier treatments - a new strategy of grasshopper control in Russia.*

*Featured Speaker at the Regional Grasshopper Management Workshop (Douglas, WY, February 1996). Title: *"Environmentally less hazardous strategies of grasshopper control in the former Soviet Union".*

1995 (1)

*The Orthopterists' Society conference during the Annual Meeting of the Entomological Society of America (Las Vegas, NV, December 1995). Title: *Morphometric phase characters of the Moroccan locust, as indicators of trends of the species' population dynamics.*

1994 (3)

*Entomological Society of America Annual Meeting (Dallas, TX, November 1994). Title: *Ecology and forecasting of the Moroccan locust in Central Asia.*

*Royal Society invitation to the 5th European Congress of Entomology (York, U.K. August 1994). Titles (2): *Moroccan locust: a faunistic rarity or an important pest?*, and *Geographical variation in morphometric phase characters of the Moroccan locust.*

1993 (2)

The Orthopterists' Society 6th International Meeting (Hilo, HI, August 1993). Titles (2): *Survival strategies of the Moroccan locust in different parts of its range: an ecotonal aspect* and *Grasshopper problem in Yakutia (East Siberia, Russia) grasslands.*

1991 (1)

10th Congress of the Russian Entomological Society (St. Petersburg, August 1991). Title: *Characterization of the phase status of locusts with morphometric traits.*

1990 (1)

All-Union Scientific Conference *Ecological Problems of Plant Protection* (VIZR, St. Petersburg, November 1990). Title: *Morphometrical characters of phase status of locust populations.*

1989 (2)

*1st All-Union Orthopterological Symposium (Novosibirsk, Russia, October 1989). Title: *Phase characters and their use in forecasting locust outbreaks.*

*28th Soviet-Iranian Conference on Quarantine and Plant Protection (Moscow, January 1989). Title: *Ecology, population dynamics and forecast of the Moroccan locust in the areas adjacent to Iran.*

HOSTING VISITING INTERNATIONAL SCIENTISTS AT UW (13):

2015 (planned) – Mario Poot Pech (Mexico)

2014 – Zhan Long (China)

2012 – Furkat Gapparov (Uzbekistan); Nadiya Muratova (Kazakhstan)

2011 – Alexander Malko, Hamid Belkharoev and Dmitri Govorov (Russia)

2010 – Chris Adriaansen (Australia); Said Ghaout, and M. Bouaichi (Morocco)

2006 – Michael Sergeev (Russia)

2005 – Mohammed Lemine Ould Ahmedou (Mauritania)

2003 – Michael Sergeev (Russia)

PROFESSIONAL SERVICES

- Chair, U.S. National Grasshopper Management Board (re-elected 2014)
- President-elect, The Orthopterists' Society (elected in 2013)
- University of Wyoming Faculty Senate member (2008-2014)
- Fulbright Specialist Program (Agriculture) Review Panel (2011-present)

- Chair of Selection Committee, Sir Boris Uvarov Award in Applied Acridology (2005 – present)
- Executive Director, the Association for Applied Acridology International (1999 – present)
- Department of Ecosystem Science and Management Graduate Committee member (2012 – present)
- Head of Wyoming State Arthropod Diagnostic Clinic (2003 – present)
- Supervisor, Wyoming State Cooperative Agricultural Pest Survey (2003 – present)
- Wyoming Department of Agriculture Emergency Insect Management Committee Member (2005 – present)
- Western Region School IPM Implementation Team and Working Group Member (2005 – present)
- Member, Working Group on Ecological Safety, Interparliamentary Assembly of Countries-Members of the Commonwealth of Independent States (IPA CIS) (2008 – present)
- International Consultant, Food and Agriculture Organization of the United Nations (FAO UN) (2000 – present)
- Reviewer for 25 scientific journals: *Crop Protection*, *Journal of Orthoptera Research*, *African Entomology*, *Journal of Applied Ecology*, *Annals of ESA*, *Ecological Entomology*; *Journal of Insect Behavior*; *Entomologia Experimentalis et Applicata*, *Journal of Applied Remote Sensing*, *Environmental Entomology*; *International Journal of Remote Sensing*, *Remote Sensing of Environment*; *Pesticide Biochemistry and Physiology*, *Western North American Naturalist*, *Agriculture, Ecosystems and Environment*, *Canadian Entomologist*; *Florida Entomologist*, *Journal of Insect Conservation*, *Journal of Biodiversity and Conservation*, *Neotropical Entomology*, *Journal of Invertebrate Pathology*, *PLoS One*, *BioControl*, *Journal of Chemical Ecology*, *International Journal of Pest Management*

EDITORSHIP AND EDITORIAL BOARDS

Guest Editor, *Journal of Applied Remote Sensing*, Special Issue “Advances in Remote Sensing Applications for Locust Habitat Monitoring and Management” (published 2014)

Lead Guest Editor, *Psyche*, Special Issue “Locusts and Grasshoppers: Behavior, Ecology, Biogeography” (published 2011)

Associate Editor, *Journal of Orthoptera Research*

CONFERENCE AND SYMPOSIUM ORGANIZER (Representative selection 2011-2013)

2013 – Symposium on Locust and Grasshopper Control, 11th International Orthoptera Congress, Kunming, China, August 2013

2012 – Symposium on Locusts and Remote Sensing at 7th International IPM Symposium in Memphis, TN, March 2012

2011 – Section organizer, International Conference WATARID 3 in Paris, France, May 2011

2008-2014 – U.S. National Grasshopper Management Board Annual Meetings organizer and convener

PROFESSIONAL AWARDS AND HONORS (*designates UW awards)

*2014 – University of Wyoming International Board of Advisors Faculty Award for Internationalization (\$1,500)

*2014 – University of Wyoming Faculty International Travel Grant Award (\$2,000)

*2013 – Global Perspectives (College of Agriculture, University of Wyoming) Award for the proposal *Biological Control of Grasshoppers: Insights from Russia* (\$4,000)

2012 – International Excellence in Integrated Pest Management Award for developing and delivering efficient, economic and environmentally less hazardous methods of grasshopper control on Western rangelands. Presented at 7th International IPM Symposium in Memphis, TN, March 2012.

*2012 – Fall 2012 semester UW Faculty Senate Speaker Award; Lecture on the Aral Sea ecological catastrophe. Two presentations, one at Casper college (November 1), the other at UW campus (November 29).

*2011 – Global Perspectives (College of Agriculture, University of Wyoming) Award for the proposal *Remote Sensing Applications to Grasshopper Monitoring in Argentina* (\$4,000)

*2011 – University of Wyoming Faculty International Travel Grant Award (\$2,000)

2010 – The Sorbonne University, Paris, France, Visiting Researcher Scholarship (Euros 16,000)

2009 – University of Sydney, Australia, International Visiting Research Fellowship (AUS\$ 20,000)

2009 – Best Paper Award at 42nd International Conference on System Sciences in Hawaii

2007 – Wyoming Press Association, Second Place – Gardening and Landscaping in Wyoming (2006) (R.

- Waggener, A. Latchininsky, T. Heald, M. Sabel, D. Cuin).
- 2007 – Medicine Bow – Routt National Forest Photo Contest – First Place Prize – Best Picture Overall – A. Latchininsky
- 2006 – Wyoming Press Association, First Place Award in news-related category - *Reflections Magazine* (2005).
- 2006 – Wyoming Press Association, Honorable Mention - Landscaping Tips (2005) (R. Waggener, B. Moline, A. Latchininsky).
- *2005 – Best article in *Reflections* magazine (\$1,000 – with Diana Dean)
- *2002 – Global Perspectives (College of Agriculture) Award for the proposal *Replacing Insecticides with Information: Improving Locust Surveys in Kazakhstan with Remote Sensing;* \$1,000 (with J. Lockwood).
- *2002 – UW International Programs Competitive Travel Grant for the project *Replacing Insecticides with Information in Kazakhstan;* \$2,000.
- *2001 – Excellence in Agriculture (College of Agriculture) Award for developing and teaching *Issues in International Pest Management* course; \$1,500 (with J. Lockwood).
- *2000 – Global Perspectives (College of Agriculture) Award for *Guide to the Identification and Management of Grasshoppers and Locusts of Kazakhstan;* \$3,000 (with J. Lockwood).
- *1999 – UW International Programs Competitive Travel Grant for the project *Guide to the economic and common species of locusts and grasshoppers of Central Asia;* \$2,000
- *1999 – Department of Renewable Resources and Graduate School Travel Award to attend the Annual Meeting of the Entomological Society of America in Atlanta, GA; \$600.
- *1998 – Department of Renewable Resources and Graduate School Travel Award to participate on the University of Wyoming Graduate Students Team at Students Debates during the Annual Meeting of the Entomological Society of America in Las Vegas, NV; \$600.
- *1998 – International Student General Scholarship; \$2,000.
- *1998 – C.P. and Evelyn S. Plummer Scholarship; \$2,000.
- 1998 – The National Dean's List award.
- *1997 – International Student General Scholarship; \$1,200.
- *1997 – Graduate School Travel Award to attend the Annual Meeting of the National Grasshopper Management Board in Denver, CO; \$300.
- *1997 – C.P. and Evelyn S. Plummer Scholarship; \$1,000.
- *1996 - Graduate School Travel Award to attend the Annual Meeting of the National Grasshopper Management Board in Rapid City, SD (invited speaker); \$300.
- *1996 – W.E. Kuhn Foreign Student Scholarship; \$1,200.
- 1997 - Award from the Research Fund of the Orthopterists' Society for the project on the *Remotely-sensed survey of locust habitats in Central Asia;* \$1,000.
- 1995 – Award from the French Government (Ministry of Cooperation and Development) for a 1-month fellowship in Acridology at CIRAD (International Center of Agronomic Research for Development), Montpellier, France; FF 10,000 (ca. \$1,670).
- 1995 – Germaine Cousin Memorial Fellowship from the French Entomological Society for the project on *Geographic variability of phase traits in the Moroccan locust;* FF 5,000 (ca. \$833).
- 1995 – Overseas Research Students Award by the Committee of Vice-Chancellors and Principals for a 3-year postgraduate study in Agriculture with Prof. H. van Emden at the University of Reading, U.K.; £5,370 (ca. \$9,130) per year. *Declined because of a scheduling conflict.*
- 1994 – Award from the Research Fund of the Orthopterists' Society for the project *Morphological phase characteristics of Dociostaurus maroccanus in the field and laboratory;* \$400.
- 1992 – Award from the French Government (Ministry of Research and Space) for a 9-month fellowship in Acridology at CIRAD (International Center of Agronomic Research for Development), Montpellier, France; FF 90,000 (ca. \$18,000).
- 1992 – Award from the French Government (Ministry of Cooperation and Development) for a 1-month fellowship in Acridology at CIRAD (International Center of Agronomic Research for Development), Montpellier, France; FF 8,000 (ca. \$1,600).
- 1991 – Award from the French Government (Ministry of Foreign Affairs) to young Russian scholars, winners of the All-Russian competition, for an 11-month post-doctoral training in France; FF 49,500 (ca. \$9,900). .

1991 – Winner of the All-Russian young scholar competition for a one-year research training in France supported by the French government (Ministry of Foreign Affairs).

Travel Support from Other Institutions (selected; 2003-2014)

- 2014 – Travel grant from Mexican Ministry of Agriculture to attend Workshop on locust and grasshopper management in Merida, Yucatan; \$2,500
- 2014 – Travel grant from University of North Dakota to present a talk at Dept. of Space Studies Colloquium Series; \$2,100
- 2013 – Travel support from The Orthopterists' Society to attend the 11th International Congress of Orthopterology, in Kunming, China; \$1,000
- 2013 – Travel grant from SELPER to attend the Society's National meeting in San Luis Potosi; \$1,800
- 2012 – Travel grant from CSU Extension to present at Tri-River Area Extension Pest Management Workshop, Grand Junction, CO; \$1,600
- 2012 – Travel support from the International IPM Symposium to attend 7th International IPM Symposium in Memphis, TN; \$800
- 2010 – Travel grant from The Sorbonne University/EPHE to attend WATARID3 international conference in Paris, France; \$2,500
- 2009 – Travel grant from the University of Sydney, Australia for International Visiting Scholar; \$3,600
- 2007 – Travel grant from Mexican National Biological Control organization to attend the 30th Biocontrol Congress in Merida, Yucatan; \$2,000.
- 2007 – Travel grant from FAO UN to attend the International Workshop in the Future of Biopesticides in Desert locust Control in Saly, Senegal; \$4,000.
- 2005 – Travel grant from the Upper Midwest Aerospace Consortium (University of N. Dakota) to attend the UMAC Annual Meeting in Grand Forks, ND; \$1,200.
- 2005 – Travel Grant from Kansas State University to present an Entomology Seminar, \$1,300.
- 2004 – Travel grant from the Upper Midwest Aerospace Consortium (University of N. Dakota) to attend the UMAC Annual Meeting in Grand Forks, ND; \$1,300.
- 2004 – Travel Grant from GTZ to attend the Remote Sensing Workshop in Nukus, Uzbekistan, \$2,000.
- 2003 – Travel grant from the Great Plains Diagnostic Network to attend a GPDN meeting at Kansas State University in Manhattan, KS; \$950.
- 2003 – Travel grant from the Food and Agriculture Organization of the United Nations (FAO UN) to attend the FAO Central Asian Locust Control Workshop in Termez, Uzbekistan (resource person); \$750.
- 2003 – Travel grant from the Upper Midwest Aerospace Consortium (University of N. Dakota) to attend the UMAC Annual Meeting in Grand Forks, ND; \$1,300.

MEDIA COVERAGE (selected)

- Laramie Daily Boomerang, Sunday profile – Alex Latchininsky (2012)
- Mosquitoes in Wyoming: what to expect in 2012? Cheyenne Eagle Tribune Newspaper. Interview article published on May 13, 2012.
- Grasshoppers in Colorado: what to expect? Steamboat, CO newspaper interview. July 1, 2012.
- Climate change and pest activity in 2012: a forecast. Interview on March 28, 2012. Published in June 2012 issue of Ag Aviation magazine.
- Locusts in Kyrgyzstan. TV daily program "Good morning Kyrgyzstan" on national TV channel, Bishkek, Kyrgyzstan. 24 April 2012.
- Wyoming Public Radio, "Grasshopper situation in Wyoming" (2010)
- Laramie Boomerang daily newspaper, "Grasshopper outbreak in Wyoming" (2010)
- Rock Springs, WY Rocket-Miner newspaper, Sweetwater Master Gardener program by UW (2009)
- Steamboat Springs, CO newspaper. Grasshoppers in 2009: what to expect? (2009)
- Denver Post, CO newspaper. Horn flies, stable flies and grasshoppers (2008)
- TV Discovery Channel "Raging Nature" Series, "Swarms and Stampedes" episode (2008)
- TV History Channel "Mega Disasters" Series, "Super Swarm" episode (2006)