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**Publications and
Presentations**

Refereed Publications

55. Lucchesi AJ, **Arnone JA III**, Sherry RA, Wallace LL, Luo Y, Verburg PSJ (2010) Immediate and lagged responses to an anomalously warm year of intact tallgrass prairie ecosystems in the EcoCELLs: impacts on plant community composition and species diversity and their ecological and environmental controls? *Global Change Biology* (in preparation)
54. Larsen JD, Jasoni RL, Wallace LL, Luo Y, Verburg PSJ, **Arnone JA III** (2010) Effects of an anomalously warm year on plant canopy dynamics and size in large intact native tallgrass prairie soil-vegetation monoliths in the EcoCELLs. *Global Change Biology* (in preparation)
53. Verburg PSJ, Young A, **Arnone JA III** (2010) Do increased summer precipitation and N deposition alter fine root dynamics in a Mojave Desert ecosystem? *Global Change Biology* (in review)
52. Sherry RA, Wallace LL, **Arnone JA III**, Schimel DS, Verburg PSJ, Luo Y (2010) Rapid shifts in plant community structure and species abundances in response to extreme temperature and precipitation anomalies in an Oklahoma tallgrass prairie. *Global Change Biology* (in review, submitted on 19 September 2009)
51. **Arnone JA III**, Jasoni RL, Larsen JD, Irschick C, Miller WW, Davison J, Thomas JM, Leger EA, Verburg PSJ (2010) Water use efficiency and productivity of alternative crops for agriculture in Nevada U.S.A. under conditions of low water availability. *Plant and Soil* (in review, submitted on 10 September 2009)
50. Cheng XL, Luo Y, Su B, Verburg PSJ, Hui D, Obrist D, **Arnone JA III**, Johnson DW, Evans RD (2009) Responses of net ecosystem CO₂ exchange to nitrogen fertilization in experimentally manipulated grassland ecosystems. *Agricultural and Forest Meteorology* 149:1956-1963
49. Wohlfahrt G, Haslwanter A, Hörtnagl L, Jasoni RL, Fenstermaker LF, **Arnone JA III**, Hammerle A (2009) On the consequences of the energy imbalance for calculating surface conductance to water vapour. *Agricultural and Forest Meteorology* 149:1556-1559
48. Verburg PSJ, Johnson DW, Schorran DE, Wallace LL, Luo Y, **Arnone JA III** (2009) Impacts of an anomalously warm year on soil nitrogen availability in experimentally manipulated intact tallgrass prairie ecosystems. *Global Change Biology* 15:888-900

47. **Arnone JA III**, Verburg PSJ, Johnson DW, Larsen JD, Jasoni RL, Lucchesi AJ, Batts CM, von Nagy C, Coulombe WG, Schorran DE, Buck PE, Braswell BH, Coleman JS, Sherry RA, Wallace LL, Luo Y, Schimel DS (2008) Prolonged suppression of ecosystem carbon dioxide uptake following an anomalously warm year. *Nature* 455:383-386
46. Sherry RA, Weng E, **Arnone JA III**, Johnson DW, Schimel DS, Verburg PSJ, Wallace LL, Luo Y (2008) Lagged effects of experimental warming and doubled precipitation on annual and seasonal aboveground biomass production in tallgrass prairie. *Global Change Biology* 14:2923-2936
45. Marion GM, Verburg PSJ, Stevenson B, **Arnone III JA** (2008) Soluble element distributions in a Mojave Desert soil. *Soil Science Society of America Journal* 72:1815-1823
44. Wohlfahrt G, Fenstermaker LF, **Arnone JA III** (2008) Large annual net ecosystem CO₂ uptake of a Mojave Desert ecosystem. *Global Change Biology* 14:1475-1487.
43. Marion GM, Verburg PSJ, McDonald EV, **Arnone III JA** (2008) Modeling salt movement through a Mojave Desert soil. *Journal of Arid Environments* 72:1009-1030
42. Stamenkovic J, Gustin MS, **Arnone JA III**, Johnson DW, Larsen JD, Verburg PSJ (2008) Atmospheric mercury exchange with a tallgrass prairie ecosystem housed in mesocosms. *Science of the Total Environment* 406:227-238
41. Sherry RA, Zhuo XH, Gu SL, **Arnone JA III**, Schimel DS, Verburg PSJ, Wallace LL, Luo Y (2007) Divergence of reproductive phenology under climate warming. *Proceedings of the National Academy of Sciences* 104:198-202
40. Prater MR, Obrist D, **Arnone JA III**, Delucia EH (2006) Net carbon exchange and evapotranspiration in post-fire and intact sagebrush communities in the Great Basin. *Oecologia* 146:595-607
39. Verburg PSJ, Larsen JD, Johnson DW, Schorran DE, **Arnone JA III** (2005) Impacts of an anomalously warm year on soil CO₂ efflux in experimentally manipulated intact tallgrass prairie ecosystems. *Global Change Biology* 11:1720-1732
38. Jasoni RL, Smith SD, **Arnone JA III** (2005) Net ecosystem CO₂ exchange in Mojave Desert shrublands after eight years of exposure to elevated CO₂. *Global Change Biology* 5:749-756
37. Obrist D, Gustin MS, **Arnone JA III**, Johnson DW, Schorran DE, Verburg PSJ (2005) Measurement of gaseous elemental mercury fluxes over intact tallgrass prairie monoliths during one full year. *Atmospheric Environment* 39:957-965

36. Johnson DW, Verburg PSJ, **Arnone JA III** (2004) Soil extraction, ion exchange resin, and ion exchange membrane measures soil mineral N during incubation of a tallgrass prairie soil. *Soil Science Society of America Journal* 69:260-265
35. Obrist D, Yakir D, **Arnone JA III** (2004) Temporal and spatial patterns of soil water following wildfire-induced changes in plant communities in the Great Basin. *Plant and Soil* 262:1-12
34. Weatherly HE, Zitzer SF, Coleman JS, **Arnone JA III** (2003) In situ litter decomposition and litter quality in a Mojave Desert ecosystem: effects of elevated CO₂ and interannual climate variability. *Global Change Biology* 9:1223-1233
33. Verburg PSJ, **Arnone JA III**, Evans RD, Leroux-Swarthout D, Obrist D, Johnson DW, Schorran DE, Luo Y, Coleman JS (2003) Net ecosystem carbon exchange in two model grassland ecosystems. *Global Change Biology* 10:498-508
32. Obrist D, Verburg PSJ, Young MH, Coleman JS, Schorran DE, **Arnone JA III** (2003) Quantifying the effects of phenology on ecosystem evapotranspiration in planted grassland mesocosms using EcoCELL technology. *Agricultural and Forest Meteorology* 118:173-183
31. Obrist D, **Arnone JA III** (2003) Root development, soil water use, and root proliferation into water-enriched soil patches by *Larrea tridentata*: effects of atmospheric CO₂. *New Phytologist* 159:175-184
30. **Arnone JA III**, Obrist D (2003) A large daylight geodesic dome for quantification of whole-ecosystem CO₂ and water vapor fluxes in arid shrublands. *Journal of Arid Environments* 55:629-643
29. Billings SA, Zitzer SF, Weatherly HE, Schaeffer SM, Charlet T, **Arnone JA III**, Evans RD (2003) Effects of elevated CO₂ on green leaf tissue and litter quality in an intact Mojave Desert ecosystem. *Global Change Biology* 9:729-735
28. Obrist D, DeLucia EA, **Arnone JA III** (2003) Consequences of wildfire on ecosystem CO₂ and water vapor fluxes in the Great Basin. *Global Change Biology* 9:563-574
27. Goverde M, **Arnone III JA**, Ehardt A (2002) Species-specific reactions to elevated CO₂ and nutrient availability in four grass species. *Basic and Applied Ecology* 3:221-227
26. Obrist D, **Arnone III JA**, Körner Ch (2001) In situ effects of elevated atmospheric CO₂ on leaf freezing resistance and carbohydrates in a native temperate grassland. *Annals of Botany* 87:839-844
25. Marsh AS., **Arnone JA III**, Bormann BT, Gordon JC (2000) The role of Equisetum in nutrient cycling in an Alaskan shrub wetland. *Journal of Ecology* 88:999-1011

24. **Arnone, JA III**, Zaller JG, Spehn EM, Niklaus PA, Wells CE, Körner Ch (2000) Dynamics of root systems in intact native grasslands: effects of elevated atmospheric CO₂. *New Phytologist* 147:73-86
23. **Arnone JA III** (1999) Symbiotic N₂ fixation in high alpine grassland: effects of four growing seasons of elevated CO₂. *Functional Ecology* 13:383-387
22. Zaller JG, **Arnone JA III** (1999) Earthworm responses to plant species' loss and elevated CO₂ in calcareous grassland. *Plant and Soil* 208:1-8
21. Zaller JG, **Arnone JA III** (1999) Interactions between earthworm casts and plant species in a calcareous grassland under elevated CO₂. *Ecology* 80:873-881
20. Zaller JG, **Arnone JA III** (1999) Earthworm and soil moisture effects on the productivity and structure of grassland communities. *Soil Biology and Biochemistry* 31: 517-523
19. **Arnone JA III**, Bohlen PJ (1998) Stimulated N₂O flux from intact grassland monoliths after two growing seasons under elevated atmospheric CO₂. *Oecologia* 116:331-335
18. **Arnone JA III** (1997) Indices of plant nitrogen availability in an alpine grassland under elevated atmospheric CO₂. *Plant and Soil* 190:61-66
17. Zaller JG, **Arnone JA III** (1997) Activity of surface casting earthworms in a calcareous grassland under elevated atmospheric CO₂. *Oecologia* 111:249-254
16. **Arnone JA III** (1997) Temporal responses of community fine root populations to long-term elevated atmospheric CO₂ and soil nutrient patches. *Acta Oecologica* 18:367-376
15. **Arnone JA III**, Hirschel G (1997) Does fertilizer application alter the effects of elevated CO₂ on leaf litter quality and in situ decomposition in an alpine grassland? *Acta Oecologica* 18:201-206
14. Körner Ch, Diemer M, Schächli B, Niklaus P, **Arnone JA III** (1997) The responses of alpine grassland to four seasons of CO₂ enrichment: a synthesis. *Acta Oecologica* 18:165-177
13. **Arnone JA III**, Kestenholtz C (1997) Root competition and elevated CO₂: effects on seedling growth in *Linum usitatissimum* populations and *Linum-Silene cretica* mixtures. *Functional Ecology* 11:209-214
12. Hirschel G, Körner Ch, **Arnone JA III** (1997) Will rising atmospheric CO₂ affect leaf litter quality and in situ decomposition rates in native plant communities? *Oecologia* 110:387-392
11. **Arnone JA III**, Körner Ch (1997) Temperature adaptation and acclimation potential of leaf dark respiration in two species of *Ranunculus* from warm and cold habitats. *Arctic and Alpine Research* 29:122-125

10. **Arnone JA III** (1996) Predicting responses of tropical plant communities to elevated CO₂: lessons from experiments with model ecosystems. In: *Carbon dioxide, populations and communities* (eds Körner Ch, Bazzaz FA), Physiological Ecology Series, Academic Press, San Diego, pp. 101-121
9. **Arnone JA III**, Körner Ch (1995) Soil and biomass carbon pools in model communities of tropical plants under elevated CO₂. *Oecologia* 104:61-71
8. **Arnone JA III**, Zaller JG, Ziegler C, Zandt H, Körner Ch (1995) Leaf quality and insect herbivory in model tropical plant communities after long-term exposure to elevated CO₂. *Oecologia* 104:72-78
7. **Arnone JA III**, Blot M, Leadley PW, Matthies D, Sanders I (1994) Biodiversity in Switzerland. *Nature* 370:500
6. **Arnone JA III**, Kohls SJ, Baker DD (1994) Nitrate effects on nodulation and nitrogenase activity of actinorhizal *Casuarina* studied in split-root systems. *Soil Biology and Biochemistry* 26:599-606
5. Körner Ch, **Arnone JA III**, Hilti W (1994) The utility of artificial ecosystems in CO₂ research. In: *Design and execution of experiments on CO₂ enrichment* (eds. Schulze E-D, Mooney HA), Commission of the European Communities, Brussels, pp. 185-198
4. **Arnone JA III**, Körner Ch (1993) Influence of elevated CO₂ on canopy development and red:far-red ratio in two-storied stands of *Ricinus communis*. *Oecologia* 94:510-515
3. Körner Ch, **Arnone JA III** (1993) Global change: the important difference between lettuce and forests. *Plant Sciences Bulletin* 39:8
2. Körner Ch, **Arnone JA III** (1992) Responses to elevated carbon dioxide in artificial tropical ecosystems. *Science* 257:1672-1675
1. **Arnone JA III**, Gordon JC (1990) Effect of nodulation, nitrogen fixation and CO₂ enrichment on the physiology, growth and dry mass allocation of seedlings of *Alnus rubra* Bong. *New Phytologist* 116:55-66

Project Reports (locally peer-reviewed)

1. **Arnone JA III**, Jasoni RL, Larsen JD, Fenstermaker LF, Wohlfahrt G, Cratt CB, Lyles BF, Healey J, Young MH, Thomas JM (2008) Variable evapotranspirative water losses from lowland agricultural and native shrubland ecosystems in the Great Basin of Nevada, U.S.A. *DRI Publication* No. 655.7250
2. Jasoni RL, Thomas JM, Cablk M, Decker D, Lyles BF, **Arnone JA III**, Albright W (2006) Evapotranspiration in Smoke Creek Desert, Nevada. *DRI Publication* No. 41224R
3. Jasoni RL, Lyles BF, Thomas JM, Larsen JD, **Arnone JA III** (2009) Comparison of evapotranspiration rates measured in the Great Basin using the eddy covariance, Bowen ratio energy balance and static chamber dome methods. *DRI Publication* No. 656.9020

Invited Seminars

- 2010 **Arnone JA III** et al. (2010) Using intact soil-vegetation mega-cosms to quantify ecosystem responses to anomalous climatic events. Contribution to a Symposium entitled: "Extreme Climatic Events: Perspectives on their Ecological Role and Approaches for Future Research" (Invited by M. Smith & A. Knapp (Annual Meeting of the Ecological Society of America, Pittsburgh, PA, 1-6 August 2010)
- 2009 **Arnone JA III**, Ecosystem CO₂ uptake: prolonged after effects of an extremely warm year. Kiwanis Club of Reno, NV (27 May 2009)
- Arnone JA III** Climate Change, Ecosystems and Research Agendas in the Lower Colorado River Basin, Symposium Panelist, American Association of Geographers, Annual Meeting, Las Vegas, NV (22-25 March, invited by W. Smith, UNLV, panel 5208)
- Arnone JA III**, Jasoni RL, Larsen JD, Fenstermaker LF, Wohlfahrt G (2009) Evapotranspiration from lowland native shrub ecosystems in Nevada's eastern Great Basin and its relationship to remotely sensed measures of vegetation. Annual Meeting of the European Geosciences Union (EGU), Vienna, Austria (19-24 April), abstract number EGU2009-10643
- 2008 **Arnone JA III** (2008) Carbon dioxide uptake by arid ecosystems: What we know about today's situation and how global change may affect this. Annual Association of Ecosystem Research Centers' (AERC) Symposium entitled: Responding to Climate Change: A Role for Ecosystems (25 September 2008, invited by T. Jordan)
- 2006 **Arnone JA III**, (2006) Reaktionen von Prairie-Ökosystemen auf jährliche Klimaschwankungen: Experimente in den EcoCELLs. Institut für Integrative Biologie und Biodiversitätsforschung, Universität für Bodenkultur (BOKU), Vienna, Austria (24 April 2006, invited by J. Zaller)
- 2005 **Arnone JA III**, (2005) Ecosystem and plant community responses to experimental interannual climate variability in tallgrass prairie in the EcoCELLs. Botanisches Kolloquium, Institut für Botanik, Universität Innsbruck, Austria (12 October 2005, invited by M. Bahn)
- 2004 **Arnone JA III** (2004) How earthworms modulate responses of native grassland ecosystems to rising atmospheric CO₂ and declining plant species diversity. University of Missouri, Department of Ecology and Evolution, (12-14 October 2004; invited by J. Coleman)
- Arnone JA III**, Wallace LL. (2004) Interannual climate variability: How temporal signatures can drive ecosystem processes. Annual Meeting of the Ecological Society of America, Portland, Oregon (3-8 August 2004), **Co-chair** of Organized Oral Session

- 2003 **Arnone JA III** (2003) Working with ecosystem processes in recovery: atmospheric CO₂ influences on recovery potential. California Invasive Plant Council Symposia: "Planning Weed Management for Ecosystem Recovery" (organizer: T. Dudley, USDA-ARS, Reno held at Kings Beach at Lake Tahoe, Nevada)
- 2002 **Arnone JA III** (2002) Interannual climate variability and ecosystem processes: a quantitative assessment combining modeling with field and mesocosm experiments. Workshop entitled: From transient to steady state response of ecosystems to CO₂ enrichment and global warming. Terrestrial Ecosystem Responses to Atmospheric and Climate Change (TERACC) Durham, New Hampshire (28 April to 1 May 2002; organizer L. Rustad)
- 1999 **Arnone JA III** (1999) Fine root dynamics under elevated CO₂ in a temperate calcareous grassland. Global Change and Terrestrial Ecosystems (GCTE) Program of the IGBP Workshop on: Effects of Global Change on Fine Root Physiology and Turnover. Townsend, Tennessee (20-22 October 1999; organizers: R. Norby and A. Fitter)
- 1998 **Arnone JA III** (1998) Global Change and Terrestrial Ecosystems (GCTE-Focus 1) Program of the IGBP Workshop on: "Litter quality and decomposition under elevated CO₂". Capri, Italy (24-27 September 1998; organizers: F. Cotrufo, R. Norby & J. Canadell)
- 1996 **Arnone JA III** (1996) Belowground responses of high alpine grassland ecosystems to elevated CO₂ and fertilizer addition: effects on symbiotic N₂ fixation. Arctic Terrestrial Ecosystems Research Initiative Workshop on: "Europe's Cold Regions: Scenarios for Ecosystem Responses to Global Change". Copenhagen, Denmark (8-10 November 1996; organizers: TV Callaghan, Ch Körner, OW Heal)
- Arnone JA**, Zaller JG (1996) Hydrologic feedback effects on N and C cycling due to enhance earthworm casting activity in lowland grassland ecosystems under elevated atmospheric CO₂. COST 619 and Global Change and Terrestrial Ecosystems (GTCE) Program of the IGBP Focus I. Conference on: "Interactions between elevated CO₂ and water in grassland". Davos, Switzerland (1-5 June 1996; organizer: J. Nösberger)
- 1994 **Arnone JA III** (1994) Plant community and species responses to elevated CO₂ in model moist tropical ecosystems. Global Change and Terrestrial Ecosystems (GTCE) Program of the IGBP Focus I. Conference on: "Community and Evolutionary Implications of Rising Atmospheric CO₂". Leuenberg, Switzerland (14-19 August 1994; organizers: Ch. Körner, FA Bazzaz)
- 1993 **Arnone JA III**, Körner Ch (1993) Above and belowground responses of model tropical ecosystems to elevated atmospheric CO₂. XV. International Botanical Congress. Yokohama, Japan (28 August – 3 September, invited by R. Luxmoore)

- Arnone JA III**, Körner Ch (1993) Fine root responses to elevated atmospheric CO₂ in model tropical ecosystems. International workshop on "Belowground Responses to Rising Atmospheric CO₂: Implications for Plants, Soil Biota and Ecosystem Processes. Pellston, Michigan (29 May - 2 June 1993; organizer: J. Teeri)
- Arnone JA III**, Gordon JC (1993) Positive feedbacks between photosynthesis and symbiotic N₂ fixation in *Alnus rubra* demonstrated under elevated atmospheric CO₂. Ninth International Conference on *Frankia* and Actinorhizal Plants. Waikato, New Zealand (4-7 April 1993; organizer W. Silvester)
- 1986 **Arnone JA III**, Gordon JG (1986) Effects of elevated atmospheric CO₂ on nodulation and nitrogenase activity in *Alnus rubra*. International Meeting on *Frankia* and Actinorhizal Plants. Umeå, Sweden (17-20 August 1986)

Other Presentations at Scientific Meetings / Workshops

- 2009 **Arnone JA III**, Jasoni RL, Larsen JD, Coulombe WG, Darrouzet-Nardi A, Luo Y, Verburg PSJ (2009) Ecosystem respiratory responses to interannual and seasonal temperature variability in intact tallgrass prairie ecosystems in the EcoCELLs. *EOS Trans.* AGU Fall Meeting Suppl., San Francisco, CA
- 2008 **Arnone JA III**, Jasoni RL, Larsen JD, Fenstermaker LF, Wohlfahrt G (2008) Atmospheric-ecosystem CO₂ exchange in sparse arid shrublands across the Great Basin USA over multiple years: identifying patterns and mechanisms. *EOS Trans.* AGU, Fall Meeting Suppl., Abstract B31A-0285, San Francisco, CA
- 2007 Verburg PSJV, Johnson DW, Schorran DE, Wallace LL, Luo Y, **Arnone JA III** (2007) Impacts of an anomalously warm year on soil nitrogen availability in experimentally manipulated intact tallgrass prairie ecosystems. *EOS Trans.* AGU, Fall Meeting Suppl., Abstract B31B-0323, San Francisco, CA
- 2006 Cablk M, Zhu J, Kratt C, Jasoni R, Young M, Thomas J, **Arnone JA III** (2006) Multi-scale remote sensing observations as a basis for estimating evapotranspiration across the eastern Great Basin Desert, Nevada, USA. *EOS Trans.* AGU, Fall Meeting Suppl., Abstract H23E-1551, San Francisco, CA
- 2003 Obrist D, Gustin MS, **Arnone JA III**, Schorran DE, Verburg PSJ, Johnson DW (2003) Vegetated terrestrial ecosystems are large sources of Hg to the atmosphere. *EOS Trans.* AGU, Fall Meeting Suppl., Abstract B51D-1002, San Francisco, CA
- Arnone JA III**, Schorran DE, Johnson DW, Wallace LL, Luo Y, Coleman JS, Schimel DS. (2003) NSF-I.R.C.E.B. Interannual climate variability and ecosystem processes in tallgrass prairie: Effects on ecosystem CO₂ fluxes. Annual Meeting of the Ecological Society of America, Savannah, GA (3-8 August 2003)

Johnson DW, **Arnone JA III**, Verburg PJS, Wallace LL, Luo Y, Royce G, Zerbach N. (2003) Interannual climate variability and ecosystem processes in tallgrass prairie: non-destructive measures of soil nutrients. Annual Meeting of the Ecological Society of America, Savannah, GA (3-8 August 2003)

Prater MR, **Arnone JA III**, Delucia EH. (2003) Conversion of sagebrush to non-native communities following fire: impacts of ecosystem carbon and water exchange. Annual Meeting of the Ecological Society of America, Savannah, GA (3-8 August 2003)

Royce G, Weatherly HE, **Arnone JA III**. (2003) NSF-I.R.C.E.B. Interannual climate variability and ecosystem processes in tallgrass prairie: controls on root length density. Annual Meeting of the Ecological Society of America, Savannah, GA (3-8 August 2003)

Weatherly HE, Su B, Wallace LL, **Arnone JA III**. (2003) NSF-I.R.C.E.B. Interannual climate variability and ecosystem processes in tallgrass prairie: controls on litter decomposition. Annual Meeting of the Ecological Society of America, Savannah, GA (4-9 August 2003)

Verburg PJS, **Arnone JA III**, Schorran DE. (2003) NSF-I.R.C.E.B. Interannual climate variability and ecosystem processes in tallgrass prairie: effects on soil respiration. Annual Meeting of the Ecological Society of America, Savannah, GA (3-8 August 2003)

2002 Obrist D, **Arnone JA III** (2002) Effects of wildfire-induced changes in plant community composition on ecosystem CO₂ and water vapor fluxes. Annual Meeting of the Ecological Society of America, Tucson, Arizona (4-9 August 2002)

Zitzer S, **Arnone JA III**, Billings S, Fenstermaker LF, Nowak R, Smith SD, Weatherly H (2002) Effects of elevated CO₂ on desert shrub litter production at the Nevada Desert FACE facility. Annual Meeting of the Ecological Society of America, Tucson, Arizona (4-9 August 2002)

Su B, Hui D, Verburg PSJ, Obrist D, **Arnone JA III**, Johnson DW, Evans RD, Luo Y (2002) Canopy radiation- and water-use efficiencies of cheatgrass as affected by pulse and gradual N fertilization. Annual Meeting of the Ecological Society of America, Tucson, Arizona (4-9 August 2002)

Prater M, Obrist D, **Arnone JA III**, Delucia EA (2002) Post-fire effects on ecosystem gas exchange patterns in northern Great Basin communities. Annual Meeting of the Ecological Society of America, Tucson, Arizona (4-9 August 2002)

- Verburg PSJ, **Arnone JA III**, Evans RD, LeRoux-Swarthout D, Obrist D, Johnson DW, Luo Y, Coleman JS (2002) The potential of short-rotation cropping systems to sequester C. Annual Meeting of the Ecological Society of America, Tucson, Arizona (4-9 August 2002)
- Weatherly H, Zitzer S, **Arnone JA III** (2002) Effects of elevated CO₂ on litter quality, decomposition, and their relationship in a Mojave Desert ecosystem. Annual Meeting of the Ecological Society of America, Tucson, Arizona (4-9 August 2002)
- 2001 Obrist D, **Arnone JA III** (2001) A large daylight geodesic dome for quantification of whole-ecosystem carbon dioxide and water vapor fluxes. *EOS Trans. AGU, Fall Meeting Suppl.*, Abstract B42A-0107, San Francisco, CA
- LeRoux-Swarthout D, Connin S, Verburg PJS, Johnson DW, **Arnone JA III**, Luo Y, Evans RD (2001) Effect of single versus continuous nitrogen applications on ecosystem nitrogen losses. Annual Meeting of the Ecological Society of America, Madison, Wisconsin (5-10 August 2001)
- 2000 **Arnone JA III**, Zaller JG, Spehn EM, Niklaus PA, Wells CE, Körner Ch (2000) In situ dynamics of fine root populations in a native temperate calcareous grassland: effects of elevated atmospheric CO₂. Annual Meeting of the Ecological Society of America, Snowbird, Utah (6-11 August 2000)
- Obrist D, **Arnone JA III** (2000) The responses of fine roots on patches of water and nitrogen in two dominant Mojave Desert shrubs. Annual Meeting of the Ecological Society of America, Snowbird, Utah (6-11 August 2000)
- Zitzer SF, **Arnone JA III**, Coleman JS, Nowak R, Seemann J, Smith SD (2000) Litter accumulation beneath Mojave Desert shrubs exposed to predicted 21st century atmospheric CO₂ levels using Free Air CO₂ Enrichment. Annual Meeting of the Ecological Society of America, Snowbird, Utah (6-11 August 2000)
- 1999 Zaller JG, **Arnone JA III** (1999) Ecological interactions between earthworms and grassland communities in a changing environment. Annual Meeting of the Ecological Society of America, Snowbird, Utah (August 1999)
- 1997 Bohlen PJ, Zaller JG, **Arnone JA III** (1997) Earthworms amplify the stimulatory effect of elevated atmospheric CO₂ on N₂O flux from intact grassland monoliths. *Bulletin of the Ecological Society of America* 78:55
- Zaller JG, **Arnone JA III** (1997) Earthworms affect plant species' responses to elevated atmospheric CO₂ in a native grassland. *Bulletin of The Soil Ecology Society* (1997 Conference, Manhattan, Kansas, 27-30 May 1997)

- 1995 Zaller JG, **Arnone JA III** (1995) Influence of elevated atmospheric CO₂ on earthworm cast production in a calcareous grassland in Switzerland. *Bulletin of the British Ecological Society* (Annual Winter Meeting, Sheffield, UK; 19-21 December 1995)
- Arnone JA III**, Zaller JG (1995) Fine root dynamics in species-rich calcareous meadows of the Swiss Jura under elevated atmospheric CO₂. *Bulletin of the Ecological Society of America* 76:7
- 1992 **Arnone JA III**, Körner Ch (1992) Differential canopy growth responses in monospecific stands of *Ricinus communis* L. under elevated CO₂. *Bulletin of the Ecological Society of America* 73:99-100
- 1991-1994 Annual Meeting of the Ecological Society of America—Presenter or Co-presenter on six oral presentations or posters
- 1991 **Arnone JA III**, Gordon JC, Bormann BT, Thilenius JF, Nay SM, Goldstein B (1991) Symbiotic nitrogen fixation: potentially important source of nitrogen for willow in wetland shrub communities of the Copper River Delta, Alaska. *Bulletin of the Ecological Society of America* 72:58
- Arnone JA III**, Körner Ch (1991) A microcosm approach to study effects of CO₂ enrichment on plant communities of tropical rain forest species. *Bulletin of the Ecological Society of America* 72:166 (Annual Meeting of the ESA, San Antonio, TX)
- 1988 **Arnone JA III** (1988) Evaluation of ethylene and acetylene adsorption and solubility in growth substrate at two moisture levels: implication for using the acetylene reduction assay. In: Nitrogen fixation: hundred years after (eds. Bothe H, de Bruijn, Newton). Stuttgart, Gustav Fischer Verlag, p. 805