

# PHILIPPE C. F. ALDAHIR, Ph.D.

## CURRICULUM VITAE

### EDUCATION

<u>Institution</u>	<u>Degree</u>	<u>Dates</u>
Auburn University	Ph.D. Crop, Soil and Environmental Sciences	2011 – 2015
University of Lavras (Brazil)	B.S. Agronomic Engineering	2004 to 2010

### Non-degree Education

<u>Institution</u>	<u>Accomplishments</u>	<u>Dates</u>
The Ohio State University	OSU International Turfgrass Training Program	2009 to 2010
The Ohio State University	Golf Course Management Certificate Course**	2010

\*\*Assistantship provided by Syngenta

### WORK EXPERIENCE

- **Sr. Research Engineer** – Charlottesville VA, Biocore LLC (Oct 2020 – Present);
- **Director, Research and Innovation** – Dalton GA, Shaw Turf (Apr 2018 – Sep 2020);
- **Sr. Corporate Innovation Development Manager** – Dalton GA; Shaw Industries (Sep 2015 – Apr 2018).
- **Post doctoral fellow** – Auburn AL; Department of Crop, Soil, and Environmental Sciences, Auburn University (May 2015 – Aug 2015).
- **De facto Research Associate / Spray technician** - Auburn, AL; Department of Crop, Soil and Environmental Sciences, Auburn University (July 2014 – Aug 2015).
- **Auburn University Athletics Department** - Auburn, AL; Turfgrass Management Crew Member (May 2011 to May 2013).
- **Self Employed** - Brazil; Turfgrass Consultant (December 2010 to April 2011)
- **HS Empreendimentos** (HS Enterprises) - Brazil; Turfgrass Coordinator (June 2010 to December 2010).
- **The Sea Pines Resort** - Hilton Head Island, SC; Golf Course Spray Technician (September 2009 to April 2010).
- **The Broadmoor Golf** - Colorado Springs, CO; Greenskeeper (April 2009 to September 2010)
- **University of Lavras** - Brazil; Undergraduate Research Assistant (July 2004 to December 2007).

### TOURNAMENT EXPERIENCE

- **MLS** – Nippert Stadium (FC Cincinnati) field provider, consultant.
- **NPSL** – Keyworth Stadium (Detroit City FC) field provider.
- **Campeonato Brasileiro** – Playing grounds technician (through HS Empreendimentos, 2010) for Toca da Raposa (Cruzeiro) and Cidade do Galo (Atletico Mineiro).
- **MLB** – Marlins Park (Miami Marlins, 2020), Globe Life Field (Texas Rangers, 2020), Chase Field (Arizona Diamondbacks, 2019), Tropicana Field (Tampa Bay Rays, 2018) - playing surface design, installation, and consulting.
- **NFL** – Paul Brown Stadium (Cincinnati Bengals) and Lucas Oil Stadium (Indianapolis Colts), playing surface design, installation, and consulting (2018).
- **NCAA Collegiate Sports** - Auburn University, (2011 to 2013).

- **PGA Verizon Heritage** - Harbour Town Golf Links - Sea Pines Resort, Hilton Head Island, South Carolina, 2010 (Greenskeeper).
- **PGA Quail Hollow Championship** - Quail Hollow Club, Charlotte, North Carolina, 2010 (Greenskeeper).

## PROFESSIONAL ORGANIZATIONS

- |   |                 |
|---|-----------------|
| • American Society of Agronomy  | 2011 to 2015    |
| • Crop Science Society of America   | 2011 to 2015    |
| • Soil Science Society of America   | 2011 to 2015    |
| • Golf Course Superintendents Association of America                        | 2009 to 2015    |
| • Sports Turf Managers Association  | 2011 to 2015    |
| • Southern Weed Science Society   | 2013 to 2015    |
| • Brazilian Student Association Auburn University: co-Founder and President | 2014 to 2015    |
| • Synthetic Turf Council  | 2015 to present |

## ACCOMPLISHMENTS AND AWARDS

- 2019 – Development of B1K artificial baseball system used in 3 MLB fields.
- 2015 Gerald O. Mott Award recipient.
- 2014 Chris Stiegler Turfgrass Science Student Travel Award recipient.
- Full assistantship provided by Syngenta Turf & Ornamentals for the OSU Golf Course Management Certificate Course (2010).
- Scholarship provided by CNPq (National Research and Development Council) - Brazil (2004 to 2007).

## TEACHING EXPERIENCE

### Teaching Assistant – Auburn University

- **AGRN-3150 Turfgrass Management** Agronomy and Soils Dept. Spring 2012.
- **AGRN-1000 Basic Crop Science** Agronomy and Soils Dept. Spring 2013.
- **AGRN-3200 Applied Turf Management** Agronomy and Soils Dept. Spring 2013.
- **AGRN-3153 Turfgrass Management (Online)** Agronomy and Soils Dept. Summer 2013.
- **AGRN-1003 Basic Crop Science (Online)** Dept. of Crop, Soil, and Environmental Sciences. Fall 2013.
- **AGRN-5100 Plant Genetics and Crop Improvement** Dept. of Crop, Soil, and Environmental Sciences. Fall 2013.
- **AGRN 5180/6180 – Sports Turf Management** Dept. of Crop, Soil, and Environmental Sciences. Fall 2013.

## LANGUAGE SKILLS

- Portuguese (native)
- English (fluent)
- Spanish (fluent)
- Italian (intermediate)
- Served as a live translator in the Turfgrass Symposium VI SIGRA. Botucatu, Brazil – 2012

## BOOK CHAPTER

**Aldahir, P. C. F.** 2012. Composição e Uso de Campos Esportivos. *In: Tópicos Atuais em Gramados III. Proc. SIGRA Brazilian Turfgrass Sym. (Botucatu, Brazil) 6:175-184.*

## INTELLECTUAL PROPERTY

- Pending patents: 5
- Additional active patent applications: 9

## PEER REVIEWED PUBLICATIONS

**Aldahir, P.C.F.** and J.S. McElroy. 2014. A review of sports turf research techniques related to playability and safety standards. *Agron. J.* 106(4):1297-1308.

**Aldahir, P.C.F.**, J.S. McElroy, M.L. Flessner, J.H. Baird, S. Magni, N. Grossi, F. Lulli and M. Volterrani. 2015. Cultural and chemical practices for quality improvement of overseeded bermudagrass (*Cynodon dactylon* (L.) Pers. x *C. transvaalensis* Burt-Davey), and annual bluegrass (*Poa annua* L.) suppression. *J. Environ. Hort.* 33(1):7-14.

## PAPERS PRESENTED AT PROFESSIONAL MEETINGS

### Abstracts

**Aldahir, P.C.F.**, J.S. McElroy and M.L. Flessner. 2015. Multi-year evaluation of preemergence herbicides for annual bluegrass (*Poa annua* L.) and smooth crabgrass (*Digitaria ischaemum* (Schreb.) Schreb. Ex Muhl.) control. *Proc. Southern Weed Sci. In Press.*

**Aldahir, P.C.F.**, J.S. McElroy, M.L. Flessner, D. Spak. 2015. Developing baseline sensitivity of annual grasses to indaziflam. *Proc. Southern Weed Sci. In Press.*

**Aldahir, P.C.F.** and J.S. McElroy. 2014. Effects of simulated shade on bermudagrass pigments and carbohydrate balance. *Proc. Crop Sci. Soc. of Amer.* No. 286-5.

**Aldahir, P.C.F.** and J.S. McElroy. 2014. Evaluation of rootzone mixtures for trafficked bermudagrass 'Tifway' sports turf. *Proc. Crop Sci. Soc. of Amer.* No. 399-20.

**Aldahir, P.C.F.**, J.S. McElroy and Michael L. Flessner. 2014. Use of topramezone (Pylex) for bermudagrass (*Cynodon dactylon* spp.) and smooth crabgrass (*Digitaria ischaemum*) control in bentgrass (*Agrostis stolonifera* 'Crenshaw'). *Proc. Southern Weed Sci. Soc.* Vol 67. p93.

**Aldahir, P.C.F.** and J.S. McElroy. 2014. Use of PGRs and herbicides for seedhead suppression and quality improvement in bermudagrass (*Cynodon dactylon* x *C. transvaalensis*) 'TifGrand'. *Proc. Southern Weed Sci. Soc.* Vol 67. p258.

**Aldahir, P.C.F.** and J.S. McElroy. 2013. Response of five bermudagrass cultivars to simulated shade levels. *Proc. Crop Sci. Soc. of Amer.* No. 108-8.

**Aldahir, P.C.F.** and J.S. McElroy. 2013. Tolerance of five bermudagrass cultivars to simulated wear. Proc. Crop Sci. Soc. of Amer. No. 103-3.

Elizabeth A. Guertal, Phillip Bruner, **Philippe C. F. Aldahir**, James D. McCurdy and Lauren Alexandra Smith. 2013. Sports and science: Pringles, marbles and 5<sup>th</sup> graders. Proc. Crop. Sci. of Amer. No. 204-2.

**Aldahir, P.C. F.**, J.S. McElroy, M.L. Flessner and J.D. McCurdy. 2012. Glyphosate rates and timing for annual bluegrass control in bermudagrass overseeded with glyphosate tolerant perennial ryegrass. Proc. SIGRA Brazilian Turfgrass Sym. (Botucatu, Brazil) 6:CD-ROM. ISSN 21776691.

McCurdy, J.D., M.L. Flessner, **P.C.F. Aldahir**, and J.S. McElroy. 2012. Common lespedeza control within maintained centipedegrass turf. Proc. SIGRA Brazilian Turfgrass Sym. (Botucatu, Brazil) 6:CD-ROM. ISSN 21776691.

**Aldahir, P.C.F.**, J.S. McElroy, and M.L. Flessner. 2011. Annual bluegrass control in bermudagrass overseeded with glyphosate tolerant perennial ryegrass. Proc. Crop Sci. Soc. of Amer. No. 330-2.

**Aldahir, P. C. F.**, Guilherme, L. R. G., Antunes, A. S. 2007. Eficiência dos métodos Mehlich I e Resina Trocadora de Ânions na extração de As em diferentes tipos de solo. *In: XX Congresso de Iniciação Científica da UFLA (CIUFLA)*, Lavras, Brazil.

**Aldahir, P. C. F.**, Guilherme, L. R. G., Antunes, A. S. 2006. Fósforo disponível em função da adição de arsênio em diferentes tipos de solo. *In: XIX Congresso de Iniciação Científica da UFLA (CIUFLA)*, XIV Seminário de Avaliação do PIBIC/CNPq e IX Seminário de Avaliação do PIBIC/FAPEMIG, Lavras, Brazil.

**Aldahir, P. C. F.**, Guilherme, L. R. G., Antunes, A. S. 2006. Avaliação de fósforo no solo e em três espécies vegetais cultivadas em substrato contendo SPL ( Spent Pot Lining ). *In: XIX Congresso de Iniciação Científica da UFLA (CIUFLA)*, XIV Seminário de Avaliação do PIBIC/CNPq e IX Seminário de Avaliação do PIBIC/FAPEMIG, Lavras, Brazil.

**Aldahir, P. C. F.**, Guilherme, L. R. G., Antunes, A. S. 2006. Alteração do pH em função da adição de Arsênio em diferentes tipos de solo. *In: XIX Congresso de Iniciação Científica da UFLA (CIUFLA)*, XIV Seminário de Avaliação do PIBIC/CNPq e IX Seminário de Avaliação do PIBIC/FAPEMIG, Lavras, Brazil.

**Aldahir, P. C. F.**, Guilherme, L. R. G., Martins, F. A. D. 2005. Avaliação de Flúor solúvel em solo após adição de SPL (Spent Pot Lining). *In: XVIII Congresso de Iniciação Científica da UFLA (CICESAL)*, I Congresso de Extensão, XIII Seminário de Avaliação do PIBIC/CNPq e VIII Seminário de Avaliação do PIBIC/FAPEMIG, Lavras, Brazil.

#### ARTICLES PUBLISHED IN POPULAR PRESS

**Aldahir, P. C. F.** and J. S. McElroy. 2014. Understanding research techniques in sports turf and their implications on playability and safety. CSA News. July 2014. Pp. 12-13.

Eric T. Kleyvas, **Aldahir, P. C. F.**, J. Scott McElroy. 2013. Gridiron challenges within the SEC. SportsTurf Magazine 29(7):24-28.

**Aldahir, P. C. F.,** and J. S. McElroy. 2013. Tough times demand tough turf. Alabama Turfgrass Association Official Publication: Turf Times – Spring 2013. Pp. 14-16.

**Aldahir, P. C. F.** 2012. Estudios en cultivares de bermuda en Auburn University. TGM Latinoamerica – 103 (November). Pp. 28-30.

**Aldahir, P. C. F.** 2012. Bridging the sportsfield and the lab. Pitchcare Magazine – 45 (October/November) Pp. 110-113.