

# SRECTINGS ...WHEELS OF PROGRESS MOVE FORWARD.

The Allegheny Arboretum at IUP has taken a big step forward by receiving the funds to develop a Conceptual Master Plan for the proposed Confluence Park. Over the next several months, numerous meetings are planned to provide opportunities to develop a vision for the Confluence Park. First, and foremost, the park will provide a broad spectrum of educational opportunities. In addition, stormwater management, stream and habitat restoration, remediation, trails, future funding, and organizational recommendations will be addressed. The master plan will provide a vision and the means for creating a transformational change in the arboretum and community. The Allegheny Arboretum board and IUP look forward to sharing this vision with the expected completion of the master plan at the end of May 2019.

As we move forward in the development of a master plan, I was reminded of the meeting that was held in April of 2000. We were in the process of just starting the arboretum. To help us understand what we needed to do, representatives from Marshall Tyler Rausch landscape architect firm gave a workshop to arboretum board members. They provided us information about what is an arboretum and the guidelines for an arboretum master planning process. Their advice was critical as we moved forward in developing the Allegheny Arboretum at IUP. Key components of the workshop were the final recommendations: aim high, do it well, do it right, and everything should be high quality. We have tried to follow these guidelines as we developed the Allegheny Arboretum and will follow them as we develop the Confluence Park Master Plan.

Last year, we reported on the creation of the Allegheny Arboretum Academic Committee. In this report, examples are given of some arboretum education and research activities. Some of these studies include obtaining base data associated with sites in the proposed Confluence Park. This research will provide useful information that can be compared to future studies as the area "evolves" in the years ahead. It is anticipated that these initial studies will catalyze other opportunities for arboretum-related projects.

I wish to express my gratitude to the many of you who have generously provided support to the Allegheny Arboretum. The arboretum is an ongoing project that will continue to evolve as part of IUP and the Indiana community. Without your support, we will not be able to accomplish our goals.

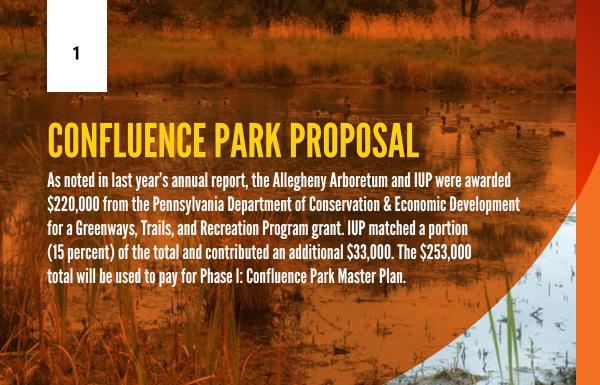
There are many ways in which you can help the arboretum succeed. Toward that end, a form for your use is included on the last page of this report. I thank you in advance for your support. Please feel free to contact me. Until the next report, please stay in touch.

Cordially,

**Dr. Jerry L. Pickering, Chair** Allegheny Arboretum Board 724-357-3323 *jlpicker@auxmail.iup.edu* 

Indiana University of Pennsylvania Robertshaw Building 650 South 13th Street Indiana, PA 15705-1087





In the spring, a request for qualifications (RFQ) document was written and advertised to obtain submissions from firms interested in developing the master plan. The Confluence Park Selection Committee reviewed the 19 submissions received and ranked each based on 100 points. Andropogon Associates, Ltd., from Philadelphia, received the highest score. Subconsultant firms included Biohabitats, Civil & Engineering Consultants, and GBBN Architects.

## **Selection Committee**

## Mr. Tom Borellis

Special Assistant to the Vice President for Administration & Finance for Special Projects, IUP, retired

### Mr. John Kilmarx

Associate Vice President for Academic Administration, IUP

## Ms. Betsy Lauber

Executive Director, Foundation for IUP

## **Dr. Jerry Pickering**

Chair, Professor, Biology Department, IUP, retired

### Ms. Emily Smeltz

Director of Annual Giving, IUP

## **Dr. Holly Travis**

Professor, Biology Department, IUP

### Dr. Whit Watts

Professor, Geography and Regional Planning Department, IUP, retired During the summer, discussions between the Confluence Park
Negotiation Committee and Andropogon
Associates led to the development of a professional service proposal for the
Confluence Park Allegheny Arboretum
Master Plan. In August, final approval of the agreement was obtained from the necessary state agencies in Harrisburg.

## **Negotiation Committee**

### Mr. Mike Brown

Associate Vice President for Facilities Management, IUP

### Mr. Jason Mackovyak

Project Manager, Engineering & Construction, IUP

In the fall, the Confluence Steering Committee met with representatives from Andropogon Associates and the subconsultant firms to begin the process of developing the master plan. In addition, input was also obtained from focus groups (i.e. Academic Committee) to ensure special needs and concerns are included in the master plan process.

## **Steering Committee**

### Mr. Tom Borellis

Special Assistant to the Vice President for Administration & Finance for Special Projects, JUP, retired

## Mr. Peter Broad

President, Indiana Borough Council

### Mr. Michael Brown

Associate Vice President for Facilities Management, IUP

### Dr. Katie Farnsworth

Associate Professor, Geoscience Department, IUP

## Mr. Matt Genchur

Code Enforcement Officer, White Township

### Ms. Barbara Hauge

RLA, ASLA, UpStreet Architects, Inc.

## Mr. Josh Krug

Chief Planner, Indiana County Planning Commission

## Ms. Mary Jo Ludwig

Assistant Director of Annual Giving, IUP

## Mr. Jason Mackovyak

Project Manager, Engineering & Construction, IUP

## Dr. Jerry Pickering

Chair, Professor, Biology Department, IUP, retired

## Mr. Dakotah Shaffer

Undergraduate biology major, member SEEDS Club

## Dr. Michael Tyree

Assistant Professor, Biology Department, IUP

## Dr. Whit Watts

Professor, Geography and Regional Planning Department, IUP, retired

Included in the Confluence Park grant proposal was a projected timeline. Based on the timeline, the Confluence Park Master Plan should be completed near the end of May 2019. At that time, there will be a press release and public notification to inform people of the master plan and to get public support.

## 2017 2018 2020 GTRP Grant RFP Released · Presentation of CMP Fundraising **Application** to University and RFP Submission Community · Working on Request Deadline for Proposal (RFP) Fundraising · Committee Reviews and Selects Firm for · Funding Awarded Conceptual Master Plan (CMP) · Negotiations with Selected Firm · Firm works on CMP 2021 2022 2023 2024 Fundraising Fundraising Fundraising Fundraising · Phase III: · Phase II: Overview and Construction Construction Documents

Andropogon Associates was given the Landscape Architecture Firm Award by the American Society of Landscape Architects (ASLA) in 2018. This is the highest recognition that the ASLA bestows upon a firm and is awarded for "distinguished work that influences the profession."



## The Conceptual Master Plan for the Confluence Park will include:

- Analysis of the collection of existing environmental evaluations and determination of what is still needed to clean up to build the Confluence Park.
- Examination of existing soil conditions, deciding what further testing and improvement are necessary.
- Evaluation of stormwater management programs and floodway and floodplain designation and definition.
- Stream reclamation program processes.
- Evaluation of existing and proposed plant material.

- Establishment of a list of proposed plant materials to support the arboretum's programs.
- Development of more complete designation of trails and pathways.
- Determination of possible location(s) and conceptual plan for the Allegheny Arboretum Welcome Center.
- Determination of the Confluence Park boundaries.
- Development of a recommended program and graphic plan with renderings, phases, and estimates for construction funding.

The next step in the project will be to obtain funds for Phase II—Overview & Construction Documents. These will provide the engineering and construction plans for building Confluence Park. Andropogon Associates will provide possible funding sources for Phase II. The Allegheny Arboretum Board and IUP will work with the University Advancement Division, IUP Research Institute and the Foundation for IUP to identify and apply for funding for Phase II from public and private sources. It is anticipated this will take two years.

A year has been allocated to select a firm and to have that firm write the Overview & Construction Documents. This will be followed by another two years to obtain the funds for Phase III–construction of Confluence Park.

This is an exciting time! The funding of Phase I, the development of a Confluence Park Master Plan, is an important accomplishment. We thank all who help support this project and we look forward to accomplishing our goal—the creation of the Confluence Park of the Allegheny Arboretum at IUP.

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## TREE PLANTINGS

## A total of 23 trees were planted over the past year. These included:

- Twelve Winter King Hawthorn, Crataegus viridis, planted along Wayne Avenue south of the KCAC.
- Three Golden Catalpa, Catalpa bignonioides, planted south of the marching band parking lot along the walking trail between the main campus and Robertshaw building.
- Two Willow Oak, Quercus phellos, planted in the east lawn of Sutton Hall.
- One Triumph Elm, *Ulmus* 'Morton Glossy', planted in the east lawn of Sutton Hall.

## In addition, five dedication trees were planted in the Oak Grove.

Willow Oak, Q. phellos

Brian and Olivia-Your family is a circle of strength and love. Founded on faith, joined in love. Kept by God together forever. Give your children roots of responsibility to grow and wings of independence to fly. Brian, Olivia, Brody, Ian and baby Ludwig

Love Always, Grammy and Pappy Ludwig

Two Sawtooth Oaks, O. acutissima

To our daughter Natalie Rose Sell. You are beautiful inside and out. You inspire us every day. You are so loved.

Love, Mom and Dad, 2018

To our son Patrick John Sell. You are loved for the little boy you are now, the amazing man you will become, and the wonderful son you will always be.

Love, Mom and Dad, 2018

Two Red Pointe Maples, Acer rubrum 'Red Pointe'

Randy L. Jesick **IUP Faculty** 1969-present

Donated by Ann Roberts Jesick

## BENCHES

## Three plaques were placed on dedicated benches.

In Memory of Dr. Ruth I. Shirey '65 Professor Emeritus, Department of Geography and Regional Planning IUP 1970-2007 From Federation of Democratic Women of Indiana County and Friends

- Delta Sigma Theta Sorority, Inc. Tau Beta Chapter (Chartered May 1, 1998) Sisterhood. Scholarship. Service. Dedicated by 1998, 2000, 2002, 2004, 2014, 2018
- In recognition of W. Thomas Borellis for his years of dedicated service to the Allegheny Arboretum and IUP.

At the December arboretum board meeting, Mr. Tom Borellis was recognized for his contributions to the arboretum and IUP by the donation of a bench in his honor. Tom retired from IUP at the end of December but

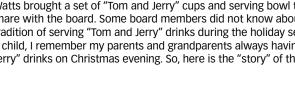
remains a member of the arboretum board. As part of the "celebration." Dr. Whit

Watts brought a set of "Tom and Jerry" cups and serving bowl to share with the board. Some board members did not know about the tradition of serving "Tom and Jerry" drinks during the holiday season. As a child, I remember my parents and grandparents always having "Tom and

Jerry" drinks on Christmas evening. So, here is the "story" of the origin of "Tom and Jerry" drinks!

W. Thomas Borellis for his years of dedicated service to

the Allegheny Arboretum and IUP.



## The Story about Tom and Jerry!

A Tom and Jerry is a traditional Christmastime cocktail in the United States, devised by British journalist Pierce Egan in the 1820s. It is a variant of eggnog with brandy and rum added and served hot, usually in a mug or a bowl. The drink's name is a reference to Egan's book, Life in London, or The Day and Night Scenes of Jerry Hawthorn Esq. and his Elegant Friend Corinthian Tom in Their Rambles and Sprees Through the Metropolis (1821), and the subsequent stage play, Tom and Jerry, or Life in London (1821). To publicize the book and the play, Egan introduced a variation of eggnog by adding a half ounce of brandy, calling it a "Tom and Jerry." The additional fortification helped popularize the drink. Bottoms up and enjoy!

## ACADEMIC COMMITTEE

Organizational meetings for the Academic Committee were held at the beginning of the year. Faculty representatives from four departments attended the meetings to discuss how faculty could coordinate projects associated with the arboretum. A primary topic involved suggestions relating to the Confluence Park Project. A list-serve of interested faculty was established and a "common file" was created where faculty could place data associated with the arboretum. This would allow the sharing and coordination of student and faculty research.

The following are examples of educational projects associated with studies utilizing the arboretum:

## **Master Chronology Experiment**

This effort has been headed by Dr. Michael Tyree. During the spring of 2018, the Plant Ecology (BIOL 481/581) students sampled 24 black oak and 24 white oak trees. In addition to size and health measurements, two cores were removed from each tree to develop master chronologies for the IUP south woods. These chronologies document how tree growth has been influenced by forest stand development, extreme weather events, and gypsy moth outbreaks.



## Biology Department Cover-board Experiment

This has been headed by Dr. Ellen Yerger and other biology faculty members who teach the BIOL 201 labs in the fall. Eighteen 1- to 2- meter cover boards were in one of three understory types (fern, Japanese stilt grass, and native forest floor.) The project was replicated six times in the south woods and has been measured by the Principles of Ecology and Evolution (BIOL 201) labs every fall since 2015. Students monitor macroinvertebrate populations.

## **American Chestnut Hybrid Planting**

This work has also been headed up by Dr. Tyree. In the spring of 2017, we were given more than 150 American chestnut backcross hybrids to be planted on campus. Ten to fifteen of these seedlings were planted and are being grown at Pikes Peak Nursery for later planting on campus. The remaining 150 bare-root seedlings were planted throughout south woods. First-year assessment of survival was extremely low (about 5 percent) due to deer grazing. Only eight survived.



## Analysis of Pollen Trapped by Tape and Subjected to Simulate Dumping Areas

This work is directed up by Mr. Aaron Wolfe (Biology honors thesis) and Dr. Tyree. The tape used to dispose of a body could, in theory, connect a dumped body to the scene of the crime by comparing the pollen found on the tape to pollen found at the crime scene. During the spring of 2018, three simulated bodies were located at south woods for a week and samples brought back to the lab for analysis. Note: Although it was posted as an experiment, someone saw the field dummy and called Indiana County 911 as a body dumped at south campus!

## Permanent Forest Plot and Oak Mast Projects

Mr. Justin Kaskan, inspecting American chestnut nursery plants.

These efforts have been headed by Drs. Simmons, Tyree, and Duchamp and are part of the national Ecological Research for Education Network (EREN). Conservation of Plant and Animal Resources (BIOL 272), Applied Entomology and Zoonoses (310), and Mammalogy (BIOL 475/575) laboratory classes have been conducting course-related research for these projects. Twelve 20-meter by 20-meter permanent plots were established across the south woods forest during the fall of 2017. As part of this work, all trees greater than 2.5 centimeters in diameter at breast height (DBH) were permanently tagged and measured to track forest growth and changes in species composition over time. In addition, six mature white oak and six black oak trees were permanently tagged and measured, and oak mast production was monitored during the fall of 2017. Blacklegged tick populations in the plots were also determined during the fall of 2017, and small mammal and white-tailed deer activity determined in and around the plots during the spring of 2018 to study the relationship between oak mast production, small mammal and deer populations, and Lyme disease risk. During the the summer of 2018, students from RUIA College in Mumbai, India, collected ticks from the plots and tested them for the Lyme disease pathogen as part of the Exploration in Biotechnology IUP/RUIA Summer Program.



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## **NEW SCIENCE BUILDING**

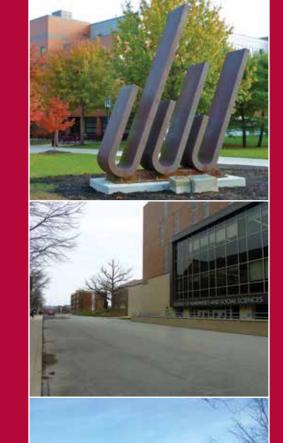
Plans are moving ahead with the funding and design of the new science building. The J-shaped building will occupy the space where Leonard Hall was located and the area east of Wilson Hall. A green roof will be placed on part of the building and a greenhouse will be located east of it. In addition, the proposed "Fern Hollow" will be included in the landscaping. It is anticipated that construction will be completed in 2022.



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## GRANT STREET GREEN SPACE

Construction started on the proposed multi-use green space on Grant Street. The first phase involved work on the western half of the street. It included the removal of the only cucumber magnolia (Magnolia acuminata) on campus and the moving of the Transitions sculpture to a location north of Eberly Hall. The second phase that includes the eastern half of the street will start in 2020. The green space will include benches, tables, tree plantings, and walkways.





## INDIANA MULTIMODAL CORRIDOR

White Township completed an extension link north of the Hoodlebug Trail across Rose Street. A "trailhead" parking area near the link was also created. A request for proposal has been initiated that will lead to final design and construction documents for the rest of the corridor. These are to be prepared over the winter with the completion of the project to Eighth Street and Gompers Avenue (borough parking lot) during the spring of 2019.



# STORMWATER EDUCATION PARTNERSHIP

The Stormwater Education Partnership is a group that was formed in 2014. Its members focus on topics, initiatives, requirements, and so forth related to stormwater management. The group develops and encourages research and studies by IUP and local schools to assist local government and other partners with decision-making. Topics could include managing stormwater on new construction, retrofitting aging infrastructure, educating the public, and working with the development community and commercial businesses. The group is always looking to identify or develop opportunities for furthering the dialogue on stormwater management regionally, with a current focus on the Indiana area, since it is the most developed area in the county. Current projects include overlapping collaborative efforts with IUP faculty and students from biology, geoscience, geography, and environmental engineering. They focus on local watersheds where flooding is of significant concern. Parts of these studies have involved sites on the proposed Confluence Park.

# DONOR RECOGNITION DISPLAY

Thanks to the generosity of donors to the arboretum, a second plaque was added to the arboretum recognition display. The display is located on the first floor of Sutton Hall. As the development of our initiatives progress, more donations will be needed to further our goals. Thank you for your generosity.



## **BUDGET SUMMARY**

Balance, July 1, 2017	\$34,547.18
Income	\$10,533.11
Expenditures	\$12,036.00
Annual Report	\$1,162.00
Benches	<b>\$</b> 5,634.55
Trees	\$3,19 <mark>4.</mark> 39
Plaques and Accession Tag	\$896.49
Donor Recognition Display	\$255.38
Tree Donation	\$250.00
Tree Tour Guide Printing	\$270.00
APGA Membership	\$300.00
IUP Foundation Fees	\$526.66
Administrative Expenses	\$51.41
Balance as of July 1, 2018	\$33,044.29

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## ALLEGHENY ARBORETUM BOARD CHANGES

We are sad to report the loss of Dr. Kurt Dudt from the board. Dudt, who had recently retired as chair of the Department of Communications Media, passed away last fall.



## 2018-2019 PROPOSED ACTIVITIES

- Collaborate with Andropogon
   Associates, Ltd., Biohabitats, Civil
   & Environmental Consultants, Inc.,
   GBBN Architects, and IUP to complete
   the Confluence Park Master Plan.
- Coordinate efforts with the University Advancement Division and the Foundation for IUP to begin investigating possible sources to fund Phase II of the Confluence Park Project: Overview and Construction Documents.
- 3. Continue to carry out arboretum "basic" functions:
  - coordinate tree plantings,
  - update, maintain and mount accession tags,
  - maintain accession list.
  - update, order, maintain and mount tree plaques,
  - coordinate bill payments and budget,
  - and write and supervise the publication of the annual report.

- 4. Continue to implement the goals of the following committees:
  - Art in the Arboretum
  - Confluence Park
  - Fern Hollow
  - Oakland Avenue Corridor
  - Plant Selection
- 5. Continue to evaluate and revise the Allegheny Arboretum web page.
- 6. Continue to cultivate contacts with local organizations.
- 7. Continue to work with administrators, faculty, and students at IUP to promote arboretum-related projects.
- 8. Continue to implement the goals and objectives of the arboretum.
- 9. A tour of the Confluence Park site will be included as a walking event for the annual Indiana County Decathlon.
- 10. Continue to implement recommendations from the Confluence Park Concept Plans.

## FRIENDS OF THE ARBORETUM

Kimberly Coleman Anderson '91 and Robert Anderson Jr.

Robert Basehore Jr. '71 and Kathie Kuvinka Basehore '71

W.Thomas Borellis

Chad Buckwalter '09 and Chelsea Grove Buckwalter '06

Adam Bukosky '08, M'15 and Nicole Bukosky '08, M'12

Mary Chey '17

Matthew Conjelko '86, M'91 and Mary-Margaret Wiker Conjelko M'95

Euniesha Davis '00

Joseph Duchamp and Tina Sumpter

Jennifer Luzier Dunsmore '98 and James Dunsmore

George Evans and Karen Evans

Michelle Fryling and Calvin Fryling

Eleanor Mihalyi Gallati '54 and Walter Gallati

Anonymous

Carol DeBacco George '92 and Eric George

Anonymous

Anthony Grieneisen '78 and Debra Zollars Grieneisen '78

Jeremy Hawk '05, M'08 and Elizabeth Poje Hawk '01, M'03

Alexander Ickes '18

Ann Roberts Jesick M'80 and Randy Jesick

Kathleen Foltz Kerr '61 and Ronald Kerr

John Kilmarx and Beth Kilmarx

Anonymous

Sara Lawer '06, M'08 and Andrew Lawer

Mary Ludwig and Michael Ludwig

Richard Manslow

Robert Martin '72 and Margaret Martin

Jillian Mathews '18

Pat Mazanek '73, M'82 and Patti Shannahan Mazanek '74, M'86

Mary Morgan '91 and Scott Morgan

Tonya Patterson

Susan Pickering '85, M'89 and Jerry Pickering

Brian Sell '05 and Stephanie Sell '10

Wesley Semple M'69 and Susan Semple

AJ Smeltz '03 and Emily Davis Smeltz '01, M'02

Holly Travis M'03, D'07

Sandra Whitson

**Christina Wiggins** 

Anonymous

Mary Zenisek

Indiana Garden Club



## ALLEGHENY ARBORETUM BOARD MEMBERS

## Mrs. Ruth Berry

District Chair, The Garden Club Federation of Pennsylvania Indiana Garden Club

## Mr. W.Thomas Borellis

Assistant to the VP for Administration and Finance for Special Projects, IUP, retired

## Mr. Michael Brown

Associate Vice President for Facilities Management, IUP

## Ms. Marge Bucci

Indiana Garden Club

## Mrs. Carla Eichman

Evergreen Garden Club of Indiana

## Mr. Charles Flynn

Musser Forest, retired Treasured Trees Nursery, owner

## Ms. Beth Ann Harrington

Director, Wood Center Art Department, IUP

## Ms. Barbara Hauge, RLA, ASLA

UpStreet Architects, Inc.

## Mr. Justin Kaskan

Twolick Valley Nursery and Gift Shoppe

## **Dr. John Kilmarx**

Associate Vice President for Academic Administration, IUP

## Dr. Jerry L. Pickering

Chair, Allegheny Arboretum Board Biology Department, IUP, retired

## Mr. Robert Pollock

Treasurer, Allegheny Arboretum Board Penn State Cooperative Extension

## Mr. Jeff Raykes

A.I.C.P. Deputy Director Indiana County Office of Planning and Development

## Ms. Micaela Rodas

Phi Eta Sigma

## **Ms. Emily Smeltz**

Director of Annual Giving, IUP

## **Dr. Holly Travis**

Biology Department, IUP

## **Dr. Meghan Twiest**

Department of Professional Studies in Education, IUP

## **Dr. Michael Tyree**

Biology Department, IUP

## **Dr. Whit Watts**

Geography and Regional Planning Department, IUP, retired





"a garden SHOULD foster a sense of Belonging to the Land, reflect the RHYTHM of the seasons, and be a Place of sanctuary." miguel urquijo



## WITH YOUR SUPPORT... The Allegheny Arboretum at IUP continues to grow, but additional funding is needed in order to continue the efforts of the arboretum. Operating solely through

is needed in order to continue the efforts of the arboretum. Operating solely through private funding, the Allegheny Arboretum is grateful for the continued support of individuals, businesses, organizations, and foundations.

Since January 2000, the arboretum has planted, nurtured, and developed green spaces on the IUP campus. The restoration and revitalization of the Oak Grove; planting of trees and placing of benches in recognition of friends, family, and loved ones; creation of new niche gardens; and so many other developments have been accomplished through the efforts of everyone involved with the Allegheny Arboretum at IUP.

Your continued support helps make realization of the five-year plan possible. Your gift makes a difference. Each tree, each garden, each bench leaves a legacy of memories for students, families, friends, and the Indiana community.

To make your gift, complete the form below, visit <a href="www.iup.edu/giveagift">www.iup.edu/giveagift</a>, or call the Office of Annual Giving at 724-357-5555.

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## Indiana University of Pennsylvania

## allegneny arboretum at iup

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This report summarizes the activities of the Allegheny Arboretum Board from July 1, 2017 through June 30, 2018 and presents some projects the board will pursue in the coming years.

