Hello GAP Members!

Happy Fall! I hope this email finds you, your families, and your academic institutions doing well. Following is the current edition of our bi-annual newsletter, including highlights from the past six months:

- **Welcome to the 8 new university members that have joined GAP since April 2022.** New members include:
  - Penn State University State College, Pennsylvania, United States
  - University of Granada, Granada, Spain
  - University of Salzburg, Salzburg, Austria
  - Ker Thiossane, Dakar, Senegal
  - ETH Zürich, Zurick, Switzerland
  - Burapha University, Ban mi, Thailand
  - Swansea University, Swansea, United Kingdom
  - Tufts University, Medford, Massachusetts, United States

- **The annual survey results are in!**
  Thank you to everyone who renewed their GAP membership this year and completed our online survey. I'm pleased to confirm that we currently have 83 active GAP members in 35 countries, with more joining every day. This is excellent news!

  Following are some interesting stats from the survey:
  - 39 universities are currently teaching Ada
  - 21 universities are currently teaching SPARK
  - Most popular compiler/host target: GNU/Linux 64 bits, followed by Windows 64 bits
  - Most popular community resource: learn.adacore.com, followed by GitHub
  - Most popular content format: Books, followed by PowerPoint slides

- **Exclusive capstone program for the 2023 winter term**
  AdaCore is looking to sponsor a capstone project during the upcoming 2023 winter term targeting the implementation of a real-world embedded domain project and integrating many aspects of professional development. In collaboration with the academic tutor/leader, AdaCore would define the specifications and scope of the project as well as retain the right to publish and modify any resulting successful source code. AdaCore would provide development platforms, periodic mentorship, and associated cost for the entire duration of the class.

We would like to discuss this as soon as possible with the objective of launching the project during the 2023 winter term. If you are interested in participating, please contact AdaCore User Experience Engineer, Oliver Henley, henley@adacore.com.

- **There is still time to enter our Crate of The Year Award competition**
Our Ada/SPARK Crate o The Year Award programming competition is designed to reward people contributing to the Alire ecosystem and offers three (3) prizes of $2,000 each. The deadline is Friday, December 31, 2022 at 23:59 CEST, so there is still time to submit your entries! For more information, check out our blog or contact AdaCore Software Engineer, Fabien Chouteau, chouteau@adacore.com.

- **Check out the latest AdaCore blogs!**
  - https://blog.adacore.com/when-formal-verification-with-spark-is-the-strongest-link
  - https://blog.adacore.com/fuzzing-out-bugs-in-safety-critical-embedded-software
  - https://blog.adacore.com/embedded-ada-spark-theres-a-shortcut
  - https://blog.adacore.com/announcing-the-2022-ada-spark-crate-of-the-year-award
  - https://blog.adacore.com/i-cant-believe-that-i-can-prove-that-it-can-sort
  - https://blog.adacore.com/a-new-era-for-ada-spark-open-source-community

- **Programming in Ada 2012, by John Barnes**
The John Barnes book, Programming in Ada 2012, is currently being updated to include the new Ada 2022 standard. The new edition is expected to be published in spring 2023. To make room on our shelves, we are looking for good homes for our existing collection. If you are interested in obtaining copies for your university, please contact me. The books are free; we only ask that you cover shipping.

- **Are you working on an exciting project using Ada or SPARK? Share it with the community!**
If your students have recently completed an exciting course, assignment, thesis, or doctoral that utilizes Ada and or SPARK, we'd love to add it to our growing list of GAP member projects and blogs. All we need are a couple of paragraphs describing the work and an accompanying photo.

As always, thank you for participating in GAP and helping us keep Ada and SPARK at the forefront of university study. If you have any questions, please feel free to contact me.

Kind regards,

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