

## ESUG 22

lun. 22 août 2022

### 09:30 - 10:00 Welcome

Agenda : ESUG 22

Créé par : stephane.ducasse@gmail.com

### 10:00 - 10:45 PharoJS

Agenda : ESUG 22

Créé par : stephane.ducasse@gmail.com

Description :

Noury Bouraqadi (noury.bouraqadi@imt-nord-europe.fr) Dave Mason(dmason@ryerson.ca)

""Abstract:"" PharoJS dates back to 2015. True to Pharo's philosophy, it was started to build real world software. Actually, the initial motivation behind PharoJS was building mobile applications based Web technologies using Cordova (formaly PhoneGap). This means that for production, Pharo code is transpiled to Javascript to benefit from JS's portability and speed. But, for development, we wanted to benefit from Pharo's unique set of features and IDE. To do so, PharoJS provides a framework and a toolset that supports integrating Pharo code with third-party JS libraries. It also enables testing and debugging applications running on a JS interpreter. We'll discuss these features, and how they were successfully used to produce real world software. ""Bio:"" Noury Bouraqadi is a software developer, maker, repair hobbyist, environment/technology/robots lover [<https://nootrix.com>]. Currently, Noury works part-time as a university professor at IMT Nord Europe, in the Autonomous and Resilient Systems group. His remaining work time is dedicated to a startup that uses PharoJS [<https://pharojs.org>] to build a SAS for teaching PLC programming & factory automation: PLC3000 [<https://plc3000.com>]. Dave Mason is Professor in, and currently Chair of, the School of Computer Science at Ryerson University [<https://sarg.ryerson.ca/dmason/>]. He is member of the Software Analysis Research Group. Dave is interested in topics such as environments and tools to support developing code in the highly-productive, Smalltalk language and environment while deploying in other contexts such as in web browsers and nodeJS (PharoJS [<https://pharojs.org>]), the Java Virtual Machine (PharoJVM) and others (Universal Export).

### 10:45 - 11:30 eXtreme Programming

Agenda : ESUG 22

Créé par : stephane.ducasse@gmail.com

Description :

How a strong test suite can strengthen the relationship with the customer? Vincent

Blondeau (vincent.blondeau@lifeware.ch) Fabiana Canipa (fabiana.canipa@lifeware.ch)

""Abstract:"" Lifeware, founded in 1998 in Switzerland, provides a web based solution for the management of life insurance products across more than 15 customers. Since its start, Lifeware adopted the eXtreme Programming mindset: any new feature is specified, designed, coded, tested in a very short cycle. Testing is strongly automated. The full suite runs more than 100.000 tests. On the other hand, customers are mostly used to a waterfall approach, making working with Lifeware not easy for them. We designed some processes and tools to strengthen this interaction. This talk will present some of them. ""Bio:"" Vincent Blondeau: After graduating from Polytech Lille in 2014 with a Software Engineering and Statistics degree, he received his Ph.D. in Software Engineering at the University of Lille, with a dissertation on the ways to select software tests related to changes that have occurred on the source code. He also spent one year in Lam Research, CA, USA, as an industrial Postdoc to create some tooling to improve the usability of the company software. He joined Lifeware in March 2019 where one of his roles is to support the migration to Pharo of the Lifeware tools. Vincent is also an active open source developer in the Pharo community. More information is available here: \*<https://vincentblondeau.github.io/>\* Fabiana Canipa: Fabiana has a very diverse background, with a bachelor in Electromechanical Engineering obtained in Bolivia, she then pursued a Master degree with a focus on Machine Learning in Switzerland. Her master thesis on models for river Flow forecasting based on machine learning was awarded the best thesis of her cohort for its focus on sustainability. She's worked as a research assistant and has been a fellow in many international programs like YSI (Norway), ELAP (Canada) and RETECA (Switzerland). She joined Lifeware in October 2021 as a software engineer and thus began her Smalltalk journey.

### 12:00 - 14:00 Lunch

Agenda : ESUG 22

Créé par : stephane.ducasse@gmail.com

## ESUG 22

### 14:00 - 14:45 **Microdown**

Agenda : ESUG 22  
Cr    par : stephane.ducasse@gmail.com

### 14:45 - 15:15 **Pharo-IA**

Agenda : ESUG 22  
Cr    par : stephane.ducasse@gmail.com  
Description :  
Sebastian JORDAN MONTA  O sebastian.jordan@inria.fr Oleksandr ZAITSEVoleksandr.zaitsev@inria.fr ""Abstract:"" In this talk we will topresent the first version of pharo-ai: A Pharo library for doing Machine Learning, Graph Algorithms and other artificial inteligencerelated topics. We will explain the modular architecture of thelibrary. Show the algorithms that we have implemented. Also, we willshow the wiki and the learning resources that are available and we willgive an inside of how to start working with the library. ""Bio:"" Sebastian JORDAN MONTA  O is a research engineer for the RMoD team atINRIA Lille. Oleksandr ZAITSEV a CIFRE PhD student between the RMoDteam at Inria Lille - Nord Europe and the Arolla software company.

### 15:15 - 15:45 **Persistence in Pharo**

Agenda : ESUG 22  
Cr    par : stephane.ducasse@gmail.com  
Description :  
Marcus Denker <marcus.denker@inria.fr>Norbert Hartl Norbert Hartl <norbert@2denker.de>  
""Abstract:""This presentation gives an overview of persistence solutions for Pharo.We start by showing Mongo/Voyage, then the different solutions for SQLsupport.""Bio:""Nobert Hartl is the CTO and Founder of ApttiveGrid GmbH and a member ofthe Pharo Board.Marcus Denker is a Researcher at Inria Lille and a member of the PharoBoard.

### 15:45 - 16:15 **Coffee Break**

Agenda : ESUG 22  
Cr    par : stephane.ducasse@gmail.com

### 16:15 - 17:00 **Lepiter: moldable knowledge platform**

Agenda : ESUG 22  
Cr    par : stephane.ducasse@gmail.com  
Description :  
Andrei Chi   (andrei.chis@feenk.com) ""Abstract:"" Lepiter is aprogrammable knowledge management platform. It is presently shippedwith Glamorous Toolkit and can be deeply embedded in the developmentworkflow. This lends itself to a variety of use cases like personalnote taking, documenting systems, exploring data or expressingcomputation in multi-language notebooks. In this talk we show livedemos of using this technology in real life projects. ""Bio:"" AndreiChi   acts as a tool crafter at feenk (feenk.com) building tools andtechniques for improving software development and is a co-author ofGlamorous Toolkit (gtoolkit.org) platform. Andrei holds a PhD from theUniversity of Bern. In his PhD he maintained that integrated development environments have to be moldable, that is, they have to beaware of the application under development and enable rapidcustomizations to new applications and tasks, and explored solutions tomake this vision possible.

### 17:00 - 19:00 **Award competition**

Agenda : ESUG 22  
Cr    par : stephane.ducasse@gmail.com

## ESUG 22

### 19:00 - 20:00 Know Thy Code

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com

Description :

an audiovisual performance for Kyma and Pharo. ""Bio: "" Domenico Cipriani a.k.a. Lucretio has been releasing raw minimalist dance music for more than a decade and with his label Restoration has played an active role in the vinyl resurgence of the late 2000. After his graduation at the S.A.E. Institute of Barcelona, he has further developed his research on social semiotics with an M.A. in Linguistics at the University of Padova, focusing on an evolutionary approach to explaining language change. He has discovered Smalltalk with SymbolicSound Kyma in 2016. In 2019, he presented at the >>Sonic Experiments<< festival at the ZKM a interactive performance based on network distributed Open Sound Control. He has been live coding with Kyma and Pharo since April 20

mar. 23 ao  t 2022

### 09:15 - 10:00 Pharo 10

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com

Description :

S. Ducasse (stephane.ducasse@inria.fr) ""Abstract: "" In this presentation we will present the key features of Pharo X. Pharo X saw - the enhancement of Spec2, - removal of Spec1, - rewriting of most tools in Spec2 - a massive amount of classes removal (GT tools, Glamour, Spec1) - new fluid class syntax ephemeron fixes many many bugs and enhancements In addition we will sketch the possible roadmap for Pharo 11 and the current development effort for this future version of Pharo. During this talk you will discover the new features of Pharo X and the vision for Pharo XI. Also we are presenting the Pharo Consortium, the benefits of participating, and the relationship with the community. ""Bio: "" S. Ducasse is the head of the Pharo consortium

### 10:00 - 10:30 Coffee break

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com

### 10:30 - 11:15 Roassal3 updates: Current status and next step

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com

Description :

Milton Mamani Torres (akevalion@gmail.com) ""Abstract: "" Roassal has become the standard platform to visualize data in Pharo. Roassal contains numerous tunable and interactive visualizations. This presentation highlights the latest progress of Roassal and outline its performance with users, new layouts and scalability process. More information about Roassal: <http://AgileVisualization.com> <https://link.springer.com/book/10.1007/978-1-4842-7161-2> ""Bio: "" Milton Mamani is a software engineer from Cochabamba Bolivia, Milton Mamani has worked with Alexandre Bergel in the creation and maintenance of Roassal3. Creating interactive and scalable visualizations. Milton Mamani currently works for Inria on the Rmod team.

### 11:15 - 12:00 Application Development with Pharo

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com

Description :

P. Tesone (pablo.tesone@inria.fr) G. Polito(guillermo.polito@inria.fr) ""Abstract:"" In this talk we present the benefits of using Pharo for the development of applications of different kinds and usages. Ranging from modern desktop applications, IoT Applications, deployments in containers, REST Servers, Web applications. Also, we show our flexibility to connect to other systems, databases and existing libraries. ""Bio:"" Pablo Tesone is engineer for the Pharo Consortium, with 10 years of experience in industrial projects. He has lately done a PhD on Dynamic Software Update applied to Live programming environments, distributed systems and robotic applications. He is interested in improving development tools and the daily development process. He is an enthusiast of the object oriented programming and their tools. He collaborates with different open source projects like the ones in the Pharo Community [<http://pharo.org/>] and the Uqbar Foundation \*<http://www.uqbar-project.org/> \*. Guille Polito is research engineer at the CRISTAL laboratory in the University of Lille, working in tight relation with the RMoD team. He formerly worked on industry on service-oriented and mobile applications before doing a PhD on computer science. Guille's main research interests are modularity and development tools. Guille participates in the Pharo community since 2010 and is now board member. His most noticeable contributions to the community are the Pharo Bootstrap process and Iceberg.

### 12:00 - 14:00 Lunch

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com

### 14:00 - 14:30 Visual Studio Code as a Smalltalk IDE

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com

Description :

! James Foster (smalltalk@jgfooster.net) ""Abstract:"" Most Smalltalk IDEs have followed the layout and usage patterns dating to the dawn of (Smalltalk) time—and have proven very productive. Unfortunately, these IDEs create a barrier for the "unwashed masses" who are used to editing text files in a separate IDE such as Visual Studio Code. In this presentation we will look at what it takes to use VS Code as a Smalltalk IDE. Along the way we will also (1) demonstrate the use of GemStone as a server for a Single Page (web) Application using the Flutter framework (and Dart language) and (2) peek at side projects that translate Python and Dart to GemStone Smalltalk. ""Bio:"" As a junior-high student in 1971, James discovered the local university's computer center and a life-long obsession with computers began. He was introduced to Smalltalk/V for the Mac in the mid-90s, and became a Smalltalk fan. James is teaching undergraduate computer science classes and also serves as VP of Finance & Operations for GemTalk Systems. He is a passionate advocate for GemStone and all things Smalltalk.

### 14:30 - 15:15 Bloc for Pharo: object-oriented UI foundations

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com

Description :

Mart  n Dias (tinchodias@gmail.com) Pablo Tesone (pablo.tesone@inria.fr) ""Abstract:"" Bloc is a graphical UI library that provides a foundations for building widget and visualization libraries. This library has several years of development. Since 2021, we started to work on a version of Bloc to be included in Pharo. This version requires clean core features, and stability. We created Alexandrie, a new low-level canvas that uses Cairo with focus on performance. It achieves its goal by calling the Cairo API as it is recommended by industry. Alexandrie requires few dependencies and uses Cairo which is stable and widely (e.g. Gnome, GTK+4). We will demo the library, and present its current state and the future perspective. ""Bio:"" Mart  n Dias worked as an engineer for many years, and got a Ph.D in 2015. He loves Pharo and the Smalltalk community. His first ESUG was in 2010, but before that assisted to Smalltalks 2009 (Argentina). Pablo Tesone is engineer for the Pharo Consortium, with 10 years of experience in industrial projects. He has lately done a PhD on Dynamic Software Update applied to Live programming environments, distributed systems and robotic applications. He is interested in improving development tools and the daily development process. He is an enthusiast of the object oriented programming and their tools. He collaborates with different open source projects like the ones in the Pharo Community [<http://pharo.org/>] and the Uqbar Foundation [<http://www.uqbar-project.org/>].

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### 15:15 - 15:45 Pharo Pro

Agenda : ESUG 22  
Cr    par : stephane.ducasse@gmail.com  
Description : N. Hartl and M. Denker

### 15:45 - 16:15 Coffee Break

Agenda : ESUG 22  
Cr    par : stephane.ducasse@gmail.com

### 16:15 - 17:00 Deploying and Scaling Pharo with a Database in Practice

Agenda : ESUG 22  
Cr    par : stephane.ducasse@gmail.com  
Description :  
!Norbert Hartl Norbert Hartl ""Abstract:"" How do you deploy Pharo with a database in practice?  
This talk shows how ApptiveGrid is deployed with a focus on scaling a database server application over multiple servers. We show how ApptiveGrid uses Docker, and how deployment is scripted with Ansible to allow us to run multiple deployed versions for Continuous Integration. The second part focuses on how ApptiveGrid leverages the simplicity of an all-Pharo solution for persistency that scales over multiple servers. ""Bio:"" Norbert Hartl is the CTO and Founder of ApptiveGrid GmbH

### 17:00 - 18:00 Show us your projects

Agenda : ESUG 22  
Cr    par : stephane.ducasse@gmail.com

mer. 24 ao  t 2022

### 09:15 - 10:00 GemTalk Update and GemStone/64 Roadmap

Agenda : ESUG 22  
Cr    par : stephane.ducasse@gmail.com  
Description :  
Norm Green (norm.green@gemtalksystems.com) ""Abstract:"" An update on GemTalk Systems and the GemStone/64 product. ""Bio:"" Norm Green started his career in 1989 at IBM in Toronto, Canada as a quality assurance engineer. In 1993, he moved to the DACS (Data Acquisition and Control System) team where he helped design and build site-wide data collection system in VisualWorks and GemStone/S Smalltalk. In 1996, he joined GemStone Systems as a Senior Consultant and traveled the world helping GemStone/S customers be successful. These days, Norm lives near Portland, Oregon, USA and holds the position of Chief Technical Officer at GemTalk Systems.

### 10:00 - 10:30 Coffee break

Agenda : ESUG 22  
Cr    par : stephane.ducasse@gmail.com

### 10:30 - 11:00 Digitize your process with ApptiveGrid

Agenda : ESUG 22  
Cr    par : stephane.ducasse@gmail.com  
Description :  
Marcus Denker <marcus.denker@inria.fr> Norbert Hartl Norbert Hartl <norbert@2denker.de>  
""Abstract:"" Digitise your processes today. With ApptiveGrid you create customised solutions in the cloud. This presentation will present the applications and its architecture \*<https://www.apptivegrid.de>"". ""Bio:"" Norbert Hartl is the CTO and Founder of ApptiveGrid GmbH and a member of the Pharo Board. Marcus Denker is a Researcher at Inria Lille and a member of the Pharo Board.

## ESUG 22

### 11:00 - 11:30 PolyMath

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com

Description :

Sebastian JORDAN MONTA  O sebastian.jordan@inria.fr Oleksandr ZAITSEVoleksandr.

zaitsev@inria.fr ""Abstract:"" In this talk we will presentPolyMath and we will show what changed in the last two years as wellthe roadmap for the future. ""Bio:"" Sebastian JORDAN MONTA  O is aresearch engineer for the RMoD team at INRIA Lille. Oleksandr ZAITSEV is a CIFRE PhD student between the RMoD team at Inria Lille - NordEurope and the Arolla software company.

### 11:30 - 12:00 Moose: a modular software analysis environment

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com

Description :

Moose: a modular software analysis environmentSoufyane LABSARI(soufyane.labsari@inria.

fr)""Abstract:""Moose is a Pharo based platformfor software and data analysis.It allows to represent software system(static data, i.e., the code) in a model.Moose provides a set of toolsto query, visualise and manipulate this model.Moose is modular and isoften used to craft specific tools that help developers inunderstanding software system, making proper decisions, identifyinganomalies, refactoring, etc..In this talk we will present Moose, itsphilosophy, its evolution and some of its tools.""Bio:""SoufyaneLABSARI is an engineer, working for the RMoD team at INRIA - Lille.

### 12:00 - 14:00 Lunch

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com

### 14:00 - 14:30 Functional Smalltalk

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com

Description :

Dave Mason (dmason@ryerson.ca) Conor Hoekstra(choekstra@ryerson.ca) ""Abstract:""

Smalltalk is the quintessential OOlanguage, and is sometimes also described as a functional language - blocks are, after all, closures and were introduced in Smalltalkshortly after being popularized in Scheme.

However, ANSI-Smalltalklacks several useful syntactic features that are common in moreconventional functional languages. Pharo-Functional[<https://github.com/dvmason/Pharo-Functional>] has numerous syntacticextensions that support much more idiomatic functional programming. Inthis talk, we will introduce these features and attempt to demonstratetheir utility. ""Bio:"" Dr. Dave Mason has been teaching and researching programming languages at Ryerson University in Toronto forover 40 years. Conor Hoekstra serves on the ISO-C++ committee, hasbecome a fan of functional, array, and combinator programming over thelast few years, and recently received his MSc. from Ryerson University.

### 14:30 - 15:45 Pharo-IA hands-on

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com

### 16:30 - 23:00 Social Event

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com



## ESUG 22

jeu. 25 août 2022

### 09:15 - 10:00 Glamorous Toolkit in 2022

Agenda : ESUG 22

Créé par : stephane.ducasse@gmail.com

Description :

Andrei Chiş (andrei.chis@feenk.com) Veit Heller(veit.heller@feenk.com)

""Abstract:"" Glamorous Toolkit is the moldable development environment. In this talk we show live what is new in the glamorous world and how the idea of moldability affects and unifies otherwise seemingly distinct activities like programming, data science or knowledge management. ""Bio:"" Andrei Chiş acts as a tool crafter at feenk (feenk.com) building tools and techniques for improving software development and is a co-author of Glamorous Toolkit (gtoolkit.org) platform. Andrei holds a PhD from the University of Bern. In his PhD he maintained that integrated development environments have to be moldable, that is, they have to be aware of the application under development and enable rapid customizations to new applications and tasks, and explored solutions to make this vision possible. Veit tried to be a jack of all trades, but a master of none. As his day job he works as a DX Crafter at feenk, helping to build Glamorous Toolkit, a project he is truly excited about.

### 10:00 - 10:30 Coffee break

Agenda : ESUG 22

Créé par : stephane.ducasse@gmail.com

### 10:30 - 11:00 Live Coding Music

Agenda : ESUG 22

Créé par : stephane.ducasse@gmail.com

Description :

Domenico Cipriani mspgate@gmail.com ""Abstract:"" Live Coding is an increasingly popular creative practice for audio-visual creation, in which the process of writing source code is made visible by projecting the computer screen in the audience space, with ways of visualising the code I have designed the LiveCoding Package for Pharo with the aim of allowing musicians and live coders to write their composition in Smalltalk, exploiting its simplicity and its easiness to learn. The package (at the moment) does not produce any sound by itself, but it is an OpenSoundControl (OSC) and MIDI server that can control other client software or programming languages capable of real-time audio synthesis (i.e. Chuck, PureData, MaxMSP) or MIDI devices throughout the connection to a MIDI interface. The LiveCoding package for Pharo has been developed with youngsters and novice programmers in mind, but it can of course be fruitfully used and expanded by skilful music programmers. I will discuss the principle of iconicity and polysemy behind its development and I will sketch out its implementation, its syntax and semantics together with future plans and I will describe the improvements made after its first presentation at the Pharo Days 2022 and together with the Pharo team.

### 11:00 - 11:30 Webside

Agenda : ESUG 22

Créé par : stephane.ducasse@gmail.com

Description :

Webside is both the specification of an API to interact with a Smalltalk system (back-end), and a web IDE (front-end) built on top of such API. Having started as a personal React/JavaScript training and being a passionate smalltalker who has worked with many different domains, (some of them involving web APIs), I decided to expose Smalltalk itself through a web API and see how far I could go by implementing the classical Smalltalk IDE tools using React. In this presentation, I will show Webside in action on at least two Smalltalk dialects, and share some ideas, insights and mainly questions gathered along this project.

### 11:30 - 12:00 GUI-Testing Smalltalk-AJAX web applications with Selenium 4

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com

Description :

Carsten H  rle (carsten.haerle@straightec.de) ""Abstract:"" Using AJAX in web applications becomes more and more popular, however GUI-testing these applications is quite difficult using standard web testing tools. The inherent problem of missing page loads, generated ids, rich AJAX client controls, and generated HTML-code often leads to complicated test code, synchronizations problems and slow test execution. The presentation shows how these problems were solved by building a test framework based on the Selenium web test tool. The test code can be easily read and written by humans and doesn't need the usual artefacts necessary in other tools, like explicit waits for page elements, artificial delays or testing for modal dialog boxes. Even though the test execution time is nearly optimal and therefore usually much faster than in many other web test tools. The base framework for selenium is an revived and enhanced port of Beach Parasol to VisualWorks. ""Bio:"" Carsten H  rle is the head and founder of straightec, a consulting company with focus on Agile development processes, Test-Driven-Development, OO-architecture and Smalltalk development. He has been using many Smalltalk dialects including PocketSmalltalk, VisualWorks and Dolphin Smalltalk since 1986 and is the main developer of educational Smalltalk-based product "beno".

### 12:00 - 14:00 Lunch

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com

### 14:00 - 14:45 Improving Snapshots on Pharo

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com

Description :

P. Tesone (pablo.tesone@inria.fr) G. Polito (guillermo.polito@inria.fr) ""Abstract:"" Snapshotting a Pharo image efficiently is challenging. Current implementations discard all optimizations done by the VM: compiled machine code, native stack representation, young generation identification. This requires a new warm-up phase every time the image is saved. This problem is aggravated when using large images. We present how introducing a semi-permanent generation of objects improves the current state, and what emerging projects arise. ""Bio:"" Pablo Tesone is engineer for the Pharo Consortium, with 10 years of experience in industrial projects. He has lately done a PhD on Dynamic Software Update applied to Live programming environments, distributed systems and robotic applications. He is interested in improving development tools and the daily development process. He is an enthusiast of the object oriented programming and their tools. He collaborates with different open source projects like the ones in the Pharo Community [<http://pharo.org/>] and the Uqbar Foundation [<http://www.uqbar-project.org/>]. Guille Polito is research engineer at the CRISTAL laboratory in the University of Lille, working in tight relation with the RMoD team. He formerly worked on industry on service-oriented and mobile applications before doing a PhD on computer science. Guille's main research interests are modularity and development tools. Guille participates in the Pharo community since 2010 and is now board member. His most noticeable contributions to the community are the Pharo Bootstrap process and Iceberg.

### 14:45 - 15:30 Working with Remote Images

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com

Description :

Alistair Grant (alistair.grant@feenk.com) ""Abstract:"" While Gt & Pharo support multiple processes within the image (green threads), this is still managed within a single operating system thread, limiting the performance of the system in multi-core machines, which are the norm. This talk will discuss how we hand off tasks to worker images, tested with up to 800 workers, to allow tests, code analysis and other reflective operations to be performed in parallel, all while keeping the code in sync. ""Bio:"" Alistair Grant is a developer experience crafter at feenk (feenk.com) building tools and techniques for making software systems explainable. Alistair is also a contributor to Pharo, and has previously managed software development in diverse areas including scientific systems, enterprise security and real-time control systems.

### 15:30 - 16:00 Coffee Break

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com



## ESUG 22

### 16:00 - 16:30 Counting sheeps

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com

Description :

! Kasper  sterbye kasper.osterbye@maarumlam.dk ""Abstract:"" My wifeand I run a hobby farm with around 30 ewes and a yearly production of60 lambs. We mostly sell lamb meat to friends and colleagues, as wellas en gross through a dealer. We started in 2005, and we have sincethen rounded more than 700 births over the years. Each year we saygoodbye to some ewes, and we pick some of the lambs to join the ranksof motherhood. I have build a sheep administration system - Ovina - inPharo. The system helps us in performing the following tasks: -Selecting which lambs to pick for further breeding - Selecting which ewes to wave bye to - Registering of location (we use some animals forgrazing in natural reserves) - Registration of weight of lambs 3-4times a season - Registration of medication and minerals - somevaccines are mandatory - Registration of births For selecting lambs forfurther breeding we compute a number of statistics aggregated to theindividual ewes, for example: - What is the average number of lambsborn - Are they all healthy - do we have to feed them for example - Howfast do her lambs grow - How fast her litter grow in total - What isthe grow rate over the last three years - How many lambs died in birth(a reasonable rare event fortunately) In this talk I would like topresent a few selected aspects of the Ovina system. In particular: - Statistics. Basically there is no end to the questions we findinteresting. Hence it is necessary with a simple way in whichstatistics can be added to the application, and to be included in theuser interface automatically. - Registrations. Similarly, it must besimple to add new kinds of registrations - and use these in statistics.Again, it should not change the user interface code to add a newregistration. - Consistency One of the key design issues in a userinterface is to make sure a change in a value in one field is reflectedin all the necessary parts of the gui. Also, changing a value mightinfluence the statistics of other animals. !! Demo In the demo I planto focus in particular on: - Data structure for Registrations, and theinterface to define new kinds of Registrations. - The columnhandling ""Bio:"" Kasper  sterbye is an independent sheepfarmer andformer computer science professor from Denmark. Kasper has been activein Pharo, and in particular in the Microdown project.

### 16:30 - 17:30 Show us Your Projects

Agenda : ESUG 22

Cr    par : stephane.ducasse@gmail.com