21ᵗʰ EICAR Annual Conference

"Cyber attacks" – myths and reality in contemporary context"

Call for Papers

Submission deadlines:	
Peer reviewed papers due	**December 16ᵗʰ, 2011**
Other papers (non reviewed)	**December 9ᵗʰ, 2011**
Acceptance notification to authors:	
Peer reviewed papers	**February 17ᵗʰ, 2012**
Other papers (non reviewed) – Initial selection	**December 23ʳᵈ, 2011**
Other papers (non reviewed) – Final selection	**January 31ᵗʰ, 2012**
Final papers due	**March 30ᵗʰ, 2012**

The 21ˢᵗ Annual EICAR Conference will be held on **May 7ᵗʰ and May 8ᵗʰ 2012, with a pre-conference program on May 6ᵗʰ in Lisbon, Portugal**.

The conference brings together experts from industry, government, military, law enforcement, academia, research and end-users to examine and discuss new research and development in anti-virus, malware, e-security, e-forensics, Information and Communications Technology (ICT) Management and legal aspects of the information technology.

For over 20 years, EICAR supported independent and proactive scientific research activities in the field of computer anti-virus (malware) and all other aspects of IT security.
Achievements of the past have always been based on an open, authentic process supported by some of the best researchers in the field for whom EICAR provided the independent organisational platform.
Trying to stay abreast with the latest developments in the area of Information Technology and the new threats and vulnerabilities discovered in contemporary environments has become a "Sisyphus" task. At our 2012 conference we would like to continue our open and proactive approach and provide some insight into a number of the burning questions of our time in the information age.
The EICAR Conference 2012 shall also be a platform to clarify some of the misunderstandings, myths, and unnecessary hype in recent schemes such as "Cyber Crime", "Information Warfare", and "Cyber War". It is our understanding that free scientific research should address technical issues in an unbiased way to provide the basis for applied research and commercial products.
EICAR 2012 also intends to initiate a more prospective view on what the next 20 years will be:
   - What will be the new forms of threats (malware)?
   - What are the issues with current and future anti-malware techniques and products?

- Is the current industry driven approach to AV still the right one?
- Are governments required to be more proactive?
- Are new tools and/or regulations required?
- Does Law Enforcement need to use malware in an offensive way?
- Do we need "Threat – Levels" and respective continuation plans?
- What is the actual "Threat – Level" for the end user?
- What are the vulnerabilities against threats?
- How can the end user assess his risk?
- How do companies assess their risks?
- How do we manage IT and the associated risks?

In summary, the rapid evolution of technologies requires the adaptation of human behaviour and in consequence leads to new needs for laws and regulations of direct relevance to the users, in the perspective of a rapid evolution of malware and attack techniques.

This call for scientific/technical/ industry papers invites therefore the submission of full papers and abstracts on one or more topics devoted to malware and anti-malware technologies, which may include but are not limited to:

- New trends in malicious codes and their side effects
- New trends in viruses and worms
- New trends in governmental use of malware
- New trend in e-Crime and e-Forensics
- Facts and techniques to evaluate the reality of the threat
- New trends in Cyber Terrorism
- Vulnerability Assessments
- Threat Assessments
- Risk management
- INFOSEC Management
- Identity Management
- ICT Security and Policy Management
- Emerging technologies (WiFi, RFID, biometrics…) with respect to malware.
- Malicious cryptography and steganography

The conference committee is seeking submissions of papers for oral presentation at the conference in two major categories:

- **Peer reviewed papers** – these papers will be selected on basis of blind peer review by members of the program committee and other independent reviewers (where necessary). Case studies, research in progress and full research papers including theoretical papers will be considered for the inclusion in the conference program. There is no definitive word limit for the submissions; however, it is anticipated that submissions will be between 3500 and 5500 words. The program committee will not accept research proposals for submission to the conference.

- **Other papers** – these papers will not be peer reviewed. However, due to the considerable interest in the conference in the previous years, these papers will also be reviewed and selected for acceptance by the

program committee. This category covers corporate papers, best practices, new technologies, policy issues etc and the conference committee are eager to obtain submissions from industry, government and other sectors for this category. **However, marketing papers will not be accepted for the conference**.

The conference committee can accept only a limited number of papers in each category and the acceptance ratio in the past few years was about 30-40% of submitted papers only. All accepted papers will be published in electronic form on the Conference CD-ROM and will be published in the printed version of the EICAR Conference Proceedings (book with ISBN). The best papers will be published in a special issue of the *Journal in Computer Virology*, a research journal published by Springer Verlag.

The best Paper will be awarded by the conference committee.

Deadlines and forms of submission:
Authors wishing to submit papers for peer review category and acceptance for the conference should submit full papers by no later than **December 16th, 2011**. These papers will be blind peer reviewed by at least two reviewers. Authors of accepted papers will be notified by **February 17th, 2012.**
Authors wishing to submit other papers should submit at least 300-word abstract by no later than **December 9th, 2011** for selection by the program committee. A first selection process will be performed to check whether the proposed papers fit to the EICAR conference policy and topics. A pre-notification will occur no later than **December 23rd, 2011**. Authors of selected papers will be notified by **January 31st, 2012**.

All submissions will be handled electronically and the review/acceptance process will be conducted anonymously by the conference committee:
- Academic papers should be submitted via on-line submission and review system available at http://papers.eicar.org/academic/ in portable document format (PDF), rich text format (RTF) or Microsoft Word 97 or newer format (DOC). All information enabling the identification of authors must be removed from the submissions. Papers in LaTeX format are particularly welcome.
- Non-academic abstracts should be submitted as plain text via the web-based form that will be available on http://papers.eicar.org/industry/

Final camera ready papers **(accepted in RTF, DOC or preferably LaTeX format)** in both paper categories must be submitted by **March 30th, 2012**. The EICAR conference uses simplified APA5 format for papers published in the proceedings (description, MS-Word (.DOT), RTF and LaTeX templates are available at http://www.eicar.org/32-0-Presenters.html).

Conference Fee Waiver
The conference fee will be waived for one presenter for each accepted paper.

EICAR Students Fund
Limited conference attendance incentives (e.g. subsidised rate for accommodation at the conference venue) may be offered from the newly founded EICAR Students Fund for student papers. Eligibility for funds is subject

to EICAR Board resolution upon recommendation from the Program Chair based on individual written request.

Student and Industry pre-conference program
On May 6th 2012, tutorials with technical and/or practical contents devoted to the new EICAR testing tools will be organized for students and IT experts.

Tentative Invited Talks
To be confirmed. We intend to welcome a top-ranking official of a European country who is responsible of cyberdefense at government level.

Conference Program Committee
The following, provisional list of distinguished researchers and/or practitioners (listed alphabetically) have confirmed their membership of the conference program committee to date:

- Fred Arbogast (CSRRT-LU, Luxembourg)
- Dr John Aycock (University of Calgary, Canada)
- David Bénichou (Investigation judge, Department of Justice, France)
- Ralf Benzmueller (G-Data Software, Germany)
- Dr Vlasti Broucek (University of Tasmania, Australia)
- Andreas Clementi (AV-Comparatives e.V, Austria)
- Dr. Werner Degenhardt (LMU Universität München, Germany)
- Michel Dubois (French DoD & ESIEA, France)
- Professor Eric Filiol (**Program Chair**) (ESAT/ESIEA, France)
- Professor Richard Ford (Florida Institute of Technology, USA)
- Professor Nikolaus Forgo (Leibniz University Hannover, Germany)
- Professor Steven Furnell (University of Plymouth, UK)
- Professor Sandro Gaycken (FU-Berlin, Germany)
- Dr Vincent Guyot (ESIEA, France)
- David Harley (ESET, LLC, UK)
- Dr. Gregoire Jacob (Telecom Sud Paris, France)
- Professor William (Bill) Hafner (Nova Southeastern University, USA)
- Dr Sylvia Kierkegaard (President of International Association of IT Lawyers, Denmark)
- Dr Thorsten Holz (Ruhr-University Bochum, Germany)
- Professor Christopher Kruegel (UCSB, USA)
- Dr Cédric Lauradoux (Inria Grenoble, France)
- Ing. Patrick Legand (Xirius Informatique, France)
- Dr Ferenc Leitold (Veszprog Ltd, Hungary)
- Professor Grant Malcolm (University of Liverpool, UK)
- Dr Lysa Myers (West Coast Labs, USA)
- Professor Yves Poullet (University Notre-Dame, Namur, Belgium)
- Professor Gerald Quirchmayr (University of Vienna, Austria)
- Professor Mark Stamp (San Jose State University, USA)
- Mag.Dr. Walter Seböck (Donau-Universität Krems, Austria)
- Dr Peter Stelzhammer   (AV-Comparatives, Germany)
- Phil Teuwen (NXP Semiconductors, Belgium)
- Sebastien Tricaud (Honeynet CTO, France)
- Professor Paul Turner (University of Tasmania, Australia)
- Dr Stefano Zanero (Politecnico di Milano, Italy)