



Project no. IST-257159

Project acronym:

MACASO

PROJECT TITLE: MAGNETO CALORITRONICS

Area: Nanoelectronics Technology (ICT-2009.3.1)

1st Intermediate report

Deliverable MAN-1

Due date of deliverable: M12

Actual submission date: 1/9/2011

Start date of project:

01/09/2010

Duration: 36 Months

Organization name of lead contractor for this deliverable: UT

Del. no.	Deliverable name	WP no.	Nature	Dissemination level ¹	Delivery date (proj month)
----------	------------------	--------	--------	----------------------------------	----------------------------

¹

PU = Public

PP = Restricted to other programme participants (including the Commission Services).

RE = Restricted to a group specified by the consortium (including the Commission Services).

CO = Confidential, only for members of the consortium (including the Commission Services).

Make sure that you are using the correct following label when your project has classified deliverables.

EU restricted = Classified with the mention of the classification level restricted "EU Restricted"

EU confidential = Classified with the mention of the classification level confidential "EU Confidential "

EU secret = Classified with the mention of the classification level secret "EU Secret "

D6.1	MAN-1	6	MAN	PU	06
------	-------	---	-----	----	----

Web-site for project MACALO

In order to inform the interested public and the scientific community about the MACALO project and to increase the level of coordination between project members, a web-site was developed. The URL (Universal Resource Locator) of the site is <http://www.macalo.eu>

The site is organized in a way that allows two different browsing modes:

1. Non-authorized access mode, which provides general information about the project to non-MACALO members with access to the results of the consortium members' research in the form of publications.
2. Authorized access mode, which is available to the consortium members and provides access to the restricted area and information that should remain confidential because of intellectual property concerns, internal information about MACALO project progress *etc.*

Public access

The part of the web-site that is accessible to the public (non-authorized users) consists of five sections:

1. General information about the MACALO project and it's goals:



2. A page with a list of the project members and links to their home web-sites:

MACALO UNIVERSITY OF TWENTE.

Home » Members

Members

Organisations	Location
NTNU TRONDHEIM	NORWAY
IN SILICIO SAS	FRANCE
RIJKSUNIVERSITEIT GRONINGEN	NETHERLANDS
NANOSC AB	SWEDEN
UNIVERSITEIT TWENTE	NETHERLANDS
TECHNISCHE UNIVERSITEIT DELFT	NETHERLANDS
COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES	FRANCE
JULIUS-MAXIMILIANS UNIVERSITAET WUERZBURG	GERMANY

Upcoming events
April 19th: Technical meeting in Amsterdam, Netherlands

Highlighted publications
Special publications will be displayed here soon.

Search this website... [advanced](#)

UNIVERSITY OF TWENTE.
Disclaimer | Contact | Sitemap

3. A page with the contact information of the project coordinator:

MACALO UNIVERSITY OF TWENTE.

Home » Contact

Contact information

Project coordinator: Arne Brataas
Arne.Brataas (at) nt.ntnu (dot) no
Phone: +47-73593647
Fax: +47-73593372

Visiting address: NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET NTNU
Høgskoleringen 1
PO Box 7491
Norway

[Get directions](#)

Webmaster: webmaster (at) macalo (dot) tnw.utwente.nl

Upcoming events
April 19th: Technical meeting in Amsterdam, Netherlands

Highlighted publications
Special publications will be displayed here soon.

Search this website... [advanced](#)

UNIVERSITY OF TWENTE.
Disclaimer | Contact | Sitemap

- A list of publications in which support from MACALO is acknowledged, informing the wider community about the progress of the participants in the achievement of the project goals:




[Home](#)
[Members](#)
[Contact](#)
[Publications](#)
[Login](#)

[Home](#) » [Publications](#)

List of publications by MACALO consortium

[Feedback control of noise in spin valves by the spin-transfer torque](#)
Swamali Bandopadhyay, Arne Brataas, and Gerrit E. W. Bauer
Appl. Phys. Lett. **98**, 083110 (2011)

[Spin transfer torque on magnetic insulators](#)
Xingtao Jia, Kai Liu, Ke Xia and Gerrit E. W. Bauer
EPL, **96**, 17005 (2011)

[Spin-magnon transmutation](#)
Gerrit E. Bauer and Yaroslav Tserkovnyak
Physics **4**, 40 (2011)

[Detection and quantification of inverse spin Hall effect from spin pumping in permalloy/normal metal bilayers](#)
O. Mosendz, V. Vlamincik, J. E. Pearson, F. Y. Fradin, G. E. W. Bauer, S. D. Bader, A. Hoffmann
Phys. Rev. B **82**, 214403 (2010)

[First-principles calculations of magnetization relaxation in pure Fe, Co, and Ni with frozen thermal lattice disorder](#)
Yi Liu, Anton A. Starikov, Zhe Yuan, and Paul J. Kelly
Phys. Rev. B **84**, 014412 (2011)

[Multiscale approach to spin transport in magnetic multilayers](#)
Simone Borlenghi, Valentin Rychkov, Cyril Petitjean and Xavier Waintal
Phys. Rev. B **84**, 035412 (2011)

[Magnetization dissipation in ferromagnets from scattering theory](#)
Arne Brataas, Yaroslav Tserkovnyak and Gerrit E. W. Bauer
Phys. Rev. B **84**, 054416 (2011)

[Crystal fields, disorder, and antiferromagnetic short-range order in \$\text{Yb}_{0.24}\text{Sn}_{0.76}\text{Ru}\$](#)
T. Klimczuk, C. H. Wang, J. M. Lawrence, Q. Xu, T. Durakiewicz, F. Ronning, A. Llobet, F. Trouw, N. Kurita, Y. Tokiwa, Han-oh Lee, C. H. Booth, J. S. Gardner, E. D. Bauer, J. J. Joyce, H. W. Zandbergen, R. Movshovich, R. J. Cava, and J. D. Thompson
Phys. Rev. B **84**, 075152 (2011)

[Unified First-Principles Study of Gilbert Damping, Spin-Flip Diffusion, and Resistivity in Transition Metal Alloys](#)
Anton A. Starikov, Paul J. Kelly, Arne Brataas, Yaroslav Tserkovnyak, and Gerrit E. W. Bauer
Phys. Rev. Lett. **105**, 236601 (2010)

[Phenomenology of Current-Induced Dynamics in Antiferromagnets](#)
Kjetil M. D. Hals,¹ Yaroslav Tserkovnyak,² and Arne Brataas
Phys. Rev. Lett. **106**, 107206 (2011)

[Spin Pumping and Spin Transfer](#)
Arne Brataas, Yaroslav Tserkovnyak, Gerrit E. W. Bauer, and Paul J. Kelly
arXiv:1108.0385

[KNIT user guide](#)
I. Rychkova², V. Rychkov¹, K. Kazymyrenko^{1,3}, S. Borlenghi¹, X. Waintal
arXiv:1010.2627

 Upcoming events
• April 19th Technical meeting in Amsterdam, Netherlands

 Highlighted publications
Special publications will be displayed here soon.



UNIVERSITY OF TWENTE.
[Disclaimer](#) | [Contact](#) | [Sitemap](#)

5. A Login page, which allows MACALO members to perform authorization and get access to the restricted area of the web-site:

MACALO

UNIVERSITY OF TWENTE.

Home » Login

Home
Members
Contact
Publications
Login

Login

Username

Password

Remember Me ☐

Login

Upcoming events

April 19th: Technical meeting in Amsterdam, Netherlands

Highlighted publications

Special publications will be displayed here soon.

Search this website...

advanced

UNIVERSITY OF TWENTE.

Disclaimer | Contact | Sitemap

Restricted area

After authorization using credentials issued by the web-site manager, members of the consortium can gain access to parts of the web-site that contains information not available to the public such as

1. Information about past and upcoming project meetings. Each listed meeting is a hyperlink to a page with information regarding that particular meeting, such as the agenda, presentations by project members, minutes of the meeting *etc*:

The image displays two screenshots of the MACALO website, which is part of the University of Twente. The top screenshot shows the 'Macalo Agenda' page, featuring a table of past and upcoming meetings. The bottom screenshot shows the '1st technical meeting' page, which includes links to the agenda, minutes, and slides for the Würzburg, In Silico, and Twente meetings.

MACALO UNIVERSITY OF TWENTE.

Home » Events

Macalo Agenda

Date	Location	Type
2010 September 30	Trondheim	Kickoff meeting
2011 April 19	Amsterdam	Technical meeting
2011 September	NanOSC	1 st review meeting
2012 Spring	Würzburg	Technical meeting
2012 September	In Silico	2 nd review meeting
2013 Spring	CEA	Technical meeting
2012 September	Twente	3 rd review meeting

Upcoming events
April 19th: Technical meeting in Amsterdam, Netherlands

Highlighted publications
Special publications will be displayed here soon.

Search this website...
advanced

UNIVERSITY OF TWENTE.
Disclaimer | Contact | Sitemap

MACALO UNIVERSITY OF TWENTE.

Home » Events

1st technical meeting

Agenda
Download the minutes

Slides:
Würzburg
In Silico
Twente

Upcoming events
April 19th: Technical meeting in Amsterdam, Netherlands

Highlighted publications
Special publications will be displayed here soon.

Search this website...
advanced

UNIVERSITY OF TWENTE.
Disclaimer | Contact | Sitemap

2. A page with a matrix of progress reports for particular work packages at different stages of the project.

The screenshot displays the MACALO website interface. At the top, the MACALO logo is on the left, a green molecular structure graphic is in the center, and the UNIVERSITY OF TWENTE logo is on the right. A navigation menu on the left includes links for Home, Members, Contact, Publications, Events, Progress reports (highlighted in red), Preprints, Add an article, and Logout. The main content area is titled 'Progress reports' and features a breadcrumb trail 'Home » Progress reports'. Below this, a matrix of progress reports is shown with columns for Work package 1 through Work package 5 and rows for 2010-Q4, 2011-Q1, and 2011-Q4. The matrix cells contain specific work package codes: WP1Q1, WP1Q2, WP2Q1, WP2Q2, WP3Q2, WP4Q1, WP4Q2, WP5Q1, and WP5Q2. The bottom of the page has a dark footer with a network diagram on the left, sections for 'Upcoming events' (listing a technical meeting in April 19th) and 'Highlighted publications' (stating special publications will be displayed soon), a search bar, and the UNIVERSITY OF TWENTE logo with links for Disclaimer, Contact, and Sitemap.

MACALO

UNIVERSITY OF TWENTE.

Home » Progress reports

Progress reports

	Work package 1	Work package 2	Work package 3	Work package 4	Work package 5
2010-Q4	WP1Q1	WP2Q1		WP4Q1	WP5Q1
2011-Q1	WP1Q2	WP2Q2	WP3Q2	WP4Q2	WP5Q2
2011-Q4					

Upcoming events

- April 19th: Technical meeting in Amsterdam, Netherlands

Highlighted publications

Special publications will be displayed here soon.

Search this website...
advanced

UNIVERSITY OF TWENTE.
Disclaimer | Contact | Sitemap

3. A section with publications by project members that have not yet been published and are not yet in the public domain because of intellectual property concerns. This affords consortium members early access to the results of their collaborators.

