

Deliverable Report

Grant agreement no:	224132 - Collaborative Projects (CP)
Deliverable reference:	D8-4
Corresponding workpackage:	WP8
Deliverable title:	MAC-TFC web site (update)
Deliverable status (public/confidential):	PU
Responsible Partner:	UFC-P5
Editor:	Nicolas PASILLY
Approved by:	Christophe GORECKI
Date of approval:	15/09/2010
Version:	1.0

Executive summary:

This deliverable describes the last updates of MAC-TFC website, operating at 15th of September 2010. Additionally, the new logo of CEA was included.

Document Information

	Information
Document Id	Report of Deliverable D8-4
File(s) Name(s)	mac-tfc_D8-4year2.pdf

Document History

Version	Issue Date	Changes
1.0	9/15/2010	

Document Approvals

Role	Name	Signature	Date
Document Editor	N. Pasily		13/09/2010
Document Reviewer	C. Gorecki		15/09/2010

Contributing partners

Group	Name(s)	Role
UFC-P5	N. Pasily, C. Gorecki	Modifications of website

Table of Content

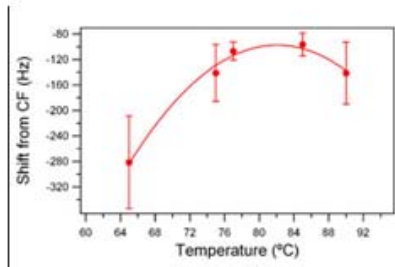
<i>1. Introduction.....</i>	<i>3</i>
<i>2. Latests updates of MAC-TFC website.....</i>	<i>4</i>

1. Introduction

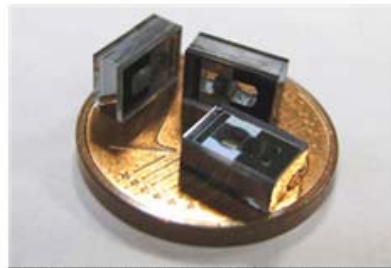
The work package concerned by this deliverable is WP8. WP8 is implemented to guarantee the effective dissemination and use of the achievements and to promote the applications of MEMS atomic clock. As the complete architecture of MAC-TFC website is described in previous deliverables (D8-1, D8-2, D8-3), this report includes only the review of last updates concerning the achievements of second year of MAC-TFC proposal.

2. Latests updates of MAC-TFC website

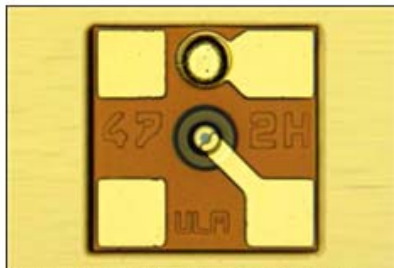
Since April 2010 the only one modification of MAC-TFC website consists in addition of a page focusing on the achievements obtained during the second reporting period. During the year 2 of MAC-TFC proposal, the Consortium focused on ethe developments of building blocks of MAC clock as well as on their characterization and preparation of LTCC packaging for the assembling tasks. The achievements are illustrated by the following gallery of images:



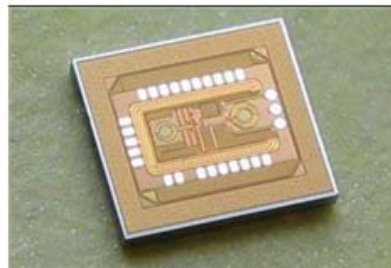
Observation of a quadratic temperature dependence of the Cs ground state hyperfine resonance frequency by UMINE and UFD-PE (WP2-WP3).



BeTet-Integrated T-cells containing Ne 100 tor by UFD-PE and SAES (WP3).

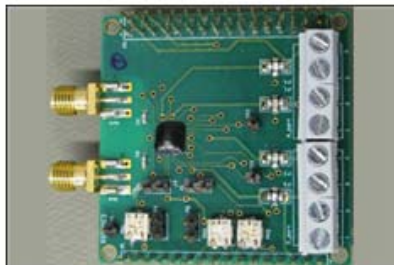


Flip-chip bondable VCSEL by ULM. Dimensions are 300 μm x 300 μm (WP4).

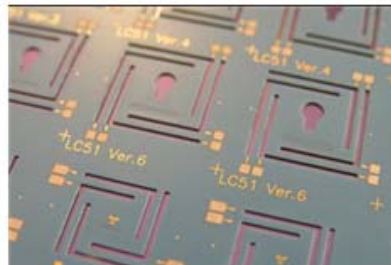


ESPLAB's ASIC (2 x 2 mm) for high resolution 4.6 GHz frequency synthesis (WP5).

The paper from A. Al-Samaneh, E. Renz, A. Strodl, W. Schwarz, D. Wehl, R. Michelzik: "Polarization-stable single-mode VCSELs for Cs-based MEMS atomic clock applications", has received the "Best Student Paper Award" in the conference of "Semiconductor Lasers and Laser Dynamics IV" in Photonics Europe 2010, Brussels, Belgium.



Yazhou's RF test board with bonded ASIC (EPFL) (WP6).



Thermally controllable multilayer LTCC platforms for Cs cells by VTT (WP6).

The second modification is the change of the name of CEA as well as CEA logo in the menu "Consortium" (CEA becomes Commissariat à l'Énergie Atomique et aux Energies Alternatives).