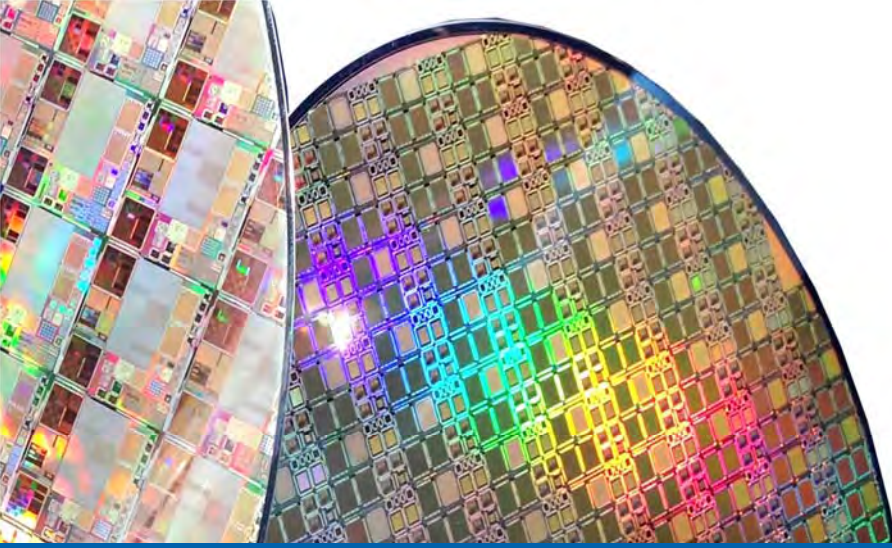
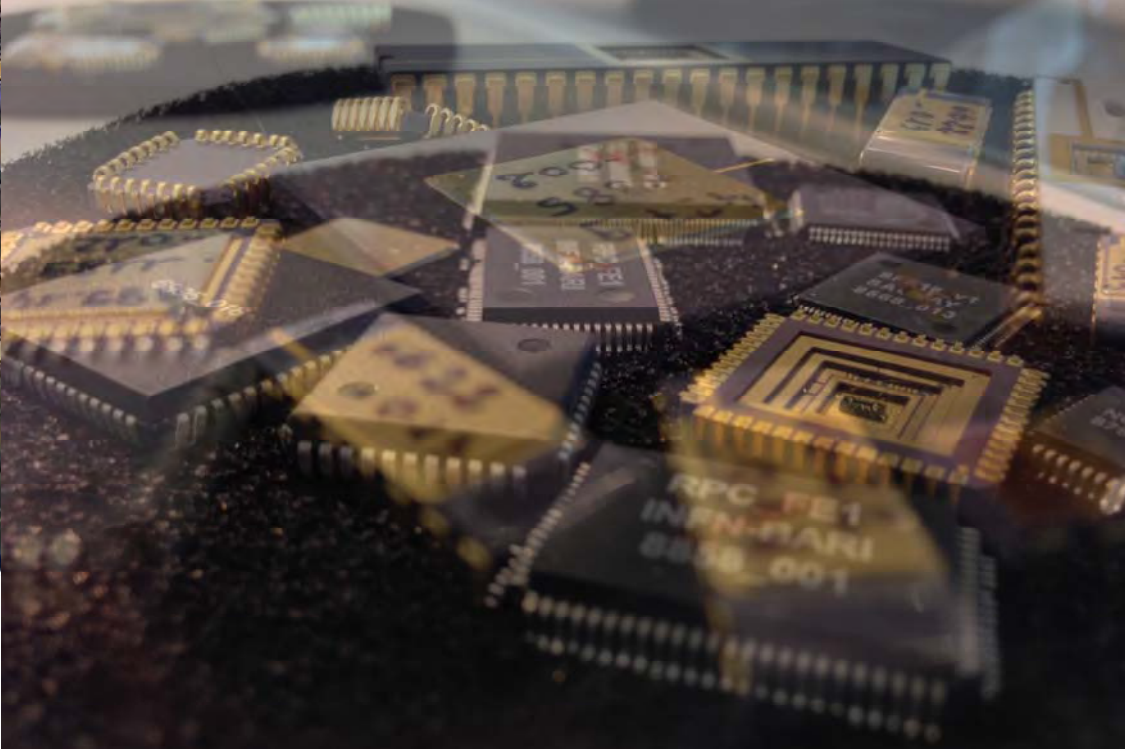
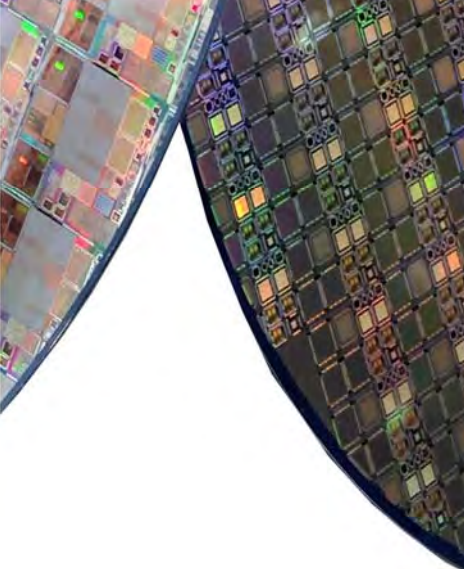




2014



APPENDICES



- 1) **Participation per Institution in 2014**
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APPENDIX 1: Participation per Institution in 2014

			NUMBER OF CIRCUITS			
			E	R	I	TOTAL
U. of Sydney	Darlington	AUSTRALIA	0	1	0	1
Ghent U.	Gent	BELGIUM	0	1	0	1
U. Catholique de Louvain	Louvain-la-Neuve	BELGIUM	0	1	0	1
Federal U. of Rio Grande do Norte (UFRN)	Natal	BRAZIL	0	1	0	1
CMC Microsystems	Kingston	CANADA	0	3	0	3
U. of Toronto	Toronto	CANADA	0	4	0	4
Czech Technical U.	Prague	CZECH REPUBLIC	0	1	0	1
Aalto U.	Espoo	FINLAND	1	0	0	1
U. of Oulu	Oulu	FINLAND	0	1	0	1
U. of Turku	Turku	FINLAND	0	2	0	2
LAPP/ IN2P3/CNRS	Annecy le Vieux	FRANCE	0	0	1	1
Centre Universitaire des Sciences & Techniques	Aubiere	FRANCE	0	0	1	1
Lab. de Physique Corpusculaire	Aubiere	FRANCE	0	0	1	1
NIPSON	Belfort	FRANCE	0	0	1	1
LE2I	Dijon	FRANCE	0	4	0	4
Thales SA	Elancourt	FRANCE	0	0	8	8
SL3J systems sarl	Gardanne	FRANCE	0	0	1	1
CEA-Saclay	Gif/Yvette	FRANCE	0	0	1	1
Lab. SPINTEC CEA/CNRS	Grenoble	FRANCE	0	1	0	1
LETI/CEA	Grenoble	FRANCE	0	0	12	12
TIMA	Grenoble	FRANCE	0	2	0	2
LPSC	Grenoble	FRANCE	0	0	1	1
IM2NP/L2MP POLYTECH	Marseille	FRANCE	0	7	0	7
LIRMM	Montpellier	FRANCE	0	1	0	1
Ecole de Mines de Nantes	Nantes	FRANCE	0	1	0	1
Institut de Physique Nucléaire	Orsay	FRANCE	0	0	1	1
Weeroc SAS	Orsay	FRANCE	0	0	1	1
L2E	Paris	FRANCE	0	1	0	1
Lab. de Physique des Plasmas	St Maur des Fosses	FRANCE	0	3	0	3
LPNHE	Paris	FRANCE	0	0	2	2
LIP6	Paris	FRANCE	0	3	0	3
G2ELab	St Martin d'Herès	FRANCE	0	6	0	6
ICube - UMR7357	Strasbourg	FRANCE	0	3	0	3
IMS	Talence	FRANCE	0	4	0	4
ENSEEIH	Toulouse	FRANCE	0	2	0	2
Lab. de Physique des Lasers	Villetaneuse	FRANCE	0	1	0	1
INSA Lyon	Villeurbanne	FRANCE	0	1	0	1
Institut de Physique Nucléaire	Villeurbanne	FRANCE	0	0	1	1
Micram Microelectronic GmbH	Bochum	GERMANY	0	0	1	1
Fraunhofer Inst f. Integrierte Schaltungen IIS	Erlangen	GERMANY	0	1	0	1
Robert Bosch GmbH	Reutlingen	GERMANY	0	0	1	1
Saarland U.	Saarbrücken	GERMANY	0	1	0	1
U. of Stuttgart	Stuttgart	GERMANY	0	1	0	1
Hong Kong U. of Science & Technology	Kowloon	HONG KONG	3	0	0	3
Chinese U. of Hong Kong	New Territories	HONG KONG	1	0	0	1
Indian Institute of Technology (IIT)	Jharagpur	INDIA	0	1	0	1
Indian Institute of Technology (IIT)	Kharagpur	INDIA	0	1	0	1
Indian Institute of Technology Bombay (IIT)	Mumbai, Maharashtra	INDIA	0	2	0	2
Gunadarma U.	Jakarta	INDONESIA	0	2	0	2
Tyndall National Inst.	Cork	IRELAND	0	1	0	1

U. College Cork	Cork	IRELAND	0	1	0	1
Politecnico di Bari	Bari	ITALY	0	3	0	3
U. of Milano Bicocca	Milano	ITALY	0	1	0	1
Università "Mediterranea" di Reggio Calabria	Reggio Calabria	ITALY	2	0	0	2
U. di Roma "La Sapienza"	Roma	ITALY	0	1	0	1
Siliconsortium Ltd	Hyogo	JAPAN	5	0	0	5
U. of Macau	Macau	MACAU	0	4	0	4
Instituto Nacional de Astrofisica	Puebla	MEXICO	1	0	0	1
U. of Twente	Enschede	NETHERLANDS	0	1	0	1
Norwegian U. of Science and Technology	Trondheim	NORWAY	0	2	0	2
U. of the Philippines, Diliman	Manila	PHILIPPINES	1	0	0	1
Krakow Design Consultants	Krakow	POLAND	0	0	1	1
New U. of Lisbon	Monte de Caparica	PORTUGAL	1	0	0	1
Nanyang Technological U.	Singapore	SINGAPORE	0	1	0	1
National U. of Singapore	Singapore	SINGAPORE	0	3	0	3
U. Politecnica de Catalunya	Barcelona	SPAIN	0	2	0	2
Instituto Microelectronica Sevilla (IMSE)	Sevilla	SPAIN	0	1	0	1
Linköping U. - ISY	Linköping	SWEDEN	0	5	0	5
Lund U.	Lund	SWEDEN	0	6	0	6
ACREO AB	Norrköping	SWEDEN	0	0	1	1
Swiss Federal Institute of Technology (EPFL)	Lausanne	SWITZERLAND	0	3	0	3
Silicon Contact Ltd.	Croydon	U.K	0	0	1	1
U. of Southampton	Southampton	U.K	2	0	0	2
U. of York	York	U.K	2	0	0	2
U. of Michigan	Ann Arbor	USA	0	1	0	1
U. of California Berkeley	Berkeley	USA	0	2	0	2
Cornell U.	Ithaca	USA	0	3	0	3
U. of California San Diego	La Jolla	USA	0	3	0	3
Utah State U.	Logan	USA	0	1	0	1
MOSIS	Marina del Rey	USA	0	1	0	1
U. of Minnesota	Minneapolis	USA	0	2	0	2
California Inst. of Technology	Pasadena	USA	0	2	0	2
Carnegie Mellon U.	Pittsburgh	USA	0	1	0	1
U. of Texas at Dallas	Richardson	USA	0	1	0	1
Stanford U.	Stanford	USA	0	1	0	1
Arizona State U.	Tempe	USA	0	1	0	1
TOTAL : 86 Institutions		27 Countries	19	118	37	174

APPENDIX 2: Institutions having submitted circuits for Industrial purpose in 2014

LAPP/ IN2P3/CNRS	Anncy le Vieux	FRANCE
Centre Universitaire des Sciences et Techniques	Aubiere	FRANCE
Lab. de Physique Corpusculaire	Aubiere	FRANCE
NIPSON	Belfort	FRANCE
Thales SA	Elancourt	FRANCE
SL3J systems sarl	Gardanne	FRANCE
CEA-Saclay	Gif/Yvette	FRANCE
LETI/CEA	Grenoble	FRANCE
LPSC	Grenoble	FRANCE
Weeroc SAS	Orsay	FRANCE
Lab. de Physique Nucléaire et de Hautes Energies	Paris	FRANCE
Institut de Physique Nucléaire	Villeurbanne	FRANCE
Micram Microelectronic GmbH	Bochum	GERMANY
Robert Bosch GmbH	Reutlingen	GERMANY
Krakow Design Consultants	Krakow	POLAND
ACREO AB	Norrkoping	SWEDEN
Silicon Contact Ltd.	Croydon	U.K

APPENDIX 3: Low volume production in 2014

Siliconsortium Ltd – Japan	34
LETI/CEA – France	35
U. of Turku - Finland	35
Lab. de Physique Nucléaire et de Hautes Energies - France	40
Norwegian U. of Science and Technology – Norway	40
U. of Texas at Dallas – USA	40
IMS – France	47
LETI/CEA - France	50
National U. of Singapore – Singapore	50
U. of Toronto - Canada	60
Centre Universitaire des Sciences et Techniques – France	75
LETI/CEA - France	100
Linköping U. – ISY – Finlan	100
Siliconsortium Ltd - Siliconsortium	100
Swiss Federal Institute of Technology (EPFL) – Switzerland	100
THALES - France	110
Lab. de Physique des Plasmas - France	25 + 18 wafers

APPENDIX 4: Institutions having submitted circuits 1981- 2014

INSTITUTIONS	TOWN	COUNTRY
Commissariat aux Energies Nouvelles	Algiers	ALGERIA
University of Adelaide	Adelaide	AUSTRALIA
Macquarie University	Sydney	AUSTRALIA
Telstra Research Laboratories	Victoria	AUSTRALIA
Austrian Mikro Systeme International GmbH (AMS)	Unterpemstatten	AUSTRIA
Thomas NEUROTH	Vienna	AUSTRIA
Ghent University ELIS-CAS	Ghent	BELGIUM
EUROPRACTICE	Leuven	BELGIUM
Interuniversity MicroElectronics Center	Leuven	BELGIUM
Katholieke Universiteit Leuven	Leuven	BELGIUM
Université de Liège	Liège	BELGIUM
Université Catholique de Louvain la Neuve	Louvain la Neuve	BELGIUM
Faculté Polytechnique de Mons	Mons	BELGIUM
Universidade de Brasília, LPCI, Dept Engen. Eletrica	Brasilia	BRAZIL
CPqD Telebras	Campinas	BRAZIL
UNICAMP - FEE	Campinas	BRAZIL
Universidade Estadual de Campinas, DEE-FEG	Campinas	BRAZIL
Centro de Pesquisas Renato Archer (CenPRA)	Campinas	BRAZIL
Centro de Componentes Semicondutores	Campinas	BRAZIL
Universidade Federal de Santa Catarina LINSE/EEL/CTC	Florianopolis	BRAZIL
Universidade Federal de Santa Catarina LCI	Florianopolis	BRAZIL
FEG UNESP	Guaratingueta	BRAZIL
Federal Univ. of Mato Grosso do Sul	Mato Grosso do Sul	BRAZIL
Federal U. of Rio Grande do Norte (UFRN)	Natal	BRAZIL
Universidad Federal do Rio Grande do Sul	Porto Alegre	BRAZIL
Universidade Federal do Rio de Janeiro, Fundação COPPETEC	Rio de Janeiro	BRAZIL
Universidade Federal do Rio de Janeiro - PADS	Rio de Janeiro	BRAZIL
Laboratorio de Microelectronica, EPUSP-DEE	Sao Paulo	BRAZIL
Laboratorio de Sistemas Integraveis, EPUSP	Sao Paulo	BRAZIL
University of Calgary	Calgary	CANADA
Dalhousie University	Halifax	CANADA
Canadian Microelectronics Corporation (CMC)	Kingston	CANADA
Ecole Polytechnique	Montréal	CANADA
PERASO	Montréal	CANADA
University of Toronto	Toronto	CANADA
Ryerson University	Toronto	CANADA
Simon Fraser University	Vancouver	CANADA
University of British Columbia	Vancouver	CANADA
University of Waterloo	Waterloo	CANADA
University of Science & Tech. of China	Beijing	CHINA
University of Macau	Macau	CHINA
Southeast University, Institute of RF-&OE-Ics	Nanjing	CHINA
Universidad del Valle	Cali	COLOMBIA
Universidad de Antioquia, Depto de Ingenieria Electronica	Medellin	COLOMBIA
Czech Technical U.	Prague	CZECH REPUBLIC
Aalborg Univeristy, RISC group	Aalborg	DENMARK
Technical University of Denmark, Department of Electromagnetics Systems	Lyngby	DENMARK
Technical University of Denmark, Department of Information Technology	Lyngby	DENMARK
Technical University of Denmark, Centre for Integrated Electronics	Lyngby	DENMARK
Jydsk Telefon	Tranbjerg	DENMARK
Ain Shams University, ECE Dept	Cairo	EGYPT

Ain Shams University, Integrated Circuits	Cairo	EGYPT
AOI Electronics, VLSI Design Center	Cairo	EGYPT
MEMSCAP	Cairo	EGYPT
Si-Ware Systems	Cairo	EGYPT
Helsinki Univ. of Technology - ECDL	Espoo	FINLAND
VTT INFORMATION TECHNOLOGY	Espoo	FINLAND
Aalto University	Espoo	FINLAND
Ylinen Electronics	Kauniainen	FINLAND
Lappeenranta U. of Technology	Lappeenranta	FINLAND
University of Oulu	Oulu	FINLAND
University of Oulu - Electronics Laboratory	Oulu	FINLAND
Tampere University of Technology	Tampere	FINLAND
University of Turku, Microelectronics Lab	Turku	FINLAND
Ecole Supérieure d'Electronique de l'Ouest (ESEO)	Angers	FRANCE
LAPP	Annecy	FRANCE
ISACOM	Annemasse	FRANCE
MIND	Archamps	FRANCE
Centre Technique des Moyens d'Essais (CTME ex. ETCA)	Arcueil	FRANCE
SAGEM SA	Argenteuil	FRANCE
Centre Universitaire des Sciences et Techniques	Aubiere	FRANCE
Université Blaise Pascal	Aubière	FRANCE
Laboratoire de Physique Corpusculaire	Aubière	FRANCE
R.E.M.F Radio Communications et Avionique S.A	Beauzelle	FRANCE
NIPSON SAS	Belfort	FRANCE
MEMSCAP S.A	Bernin	FRANCE
FEMTO-ST	Besançon	FRANCE
Ecole Nationale Supérieure de Micro Mécanique	Besançon	FRANCE
ESTIA (Ecole supérieure des technologies industrielles avancées)	Bidart	FRANCE
CIM-PACA	Biot	FRANCE
ENST de Bretagne	Brest	FRANCE
Ecole Nationale d'Ingénieurs de Brest (ENIB)	Brest	FRANCE
Ecole Nationale des Télécommunications de Bretagne (ENTB)	Brest	FRANCE
Laboratoire d'Electronique et Systèmes de Télécommunications (LEST)	Brest	FRANCE
Centre d'Electronique de l'Armement (CELAR)	Bruz	FRANCE
ENSICAEN, Lab. de Physique Corpusculaire	Caen	FRANCE
Ecole Nationale Supérieure d'Electronique et ses Applications (ENSEA)	Cergy Pontoise	FRANCE
Ecole Supérieure d'Electricité	Cesson Sévigné	FRANCE
Aérospatiale Division Missiles	Chatillon	FRANCE
Université Blaise Pascal, LPC	Clermont Ferrand	FRANCE
SYSOPTIC	Clichy	FRANCE
Univ. de Bourgogne, Lab. d'Electronique, d'Informatique et d'Image (LE2I)	Dijon	FRANCE
BOSCH	Drancy	FRANCE
Ecole Centrale de Lyon	Ecully	FRANCE
THALES Systèmes Aéroportés	Elancourt	FRANCE
Institut National des Télécommunications	Evry	FRANCE
Laboratoire d'Astrophysique de Bordeaux	Floirac	FRANCE
ID3 Semiconductors	Fontanil	FRANCE
Laboratoire de Robotique de Paris (LRP)	Fontenay	FRANCE
Centre Microélectronique de Provence - Georges Charpak	Gardanne	FRANCE
SL3J systems sarl	Gardanne	FRANCE
Ecole Supérieure d'Electricité	Gif sur Yvette	FRANCE
ID-MOS	Gradignan	FRANCE
Centre d'Etudes Nucléaires de Bordeaux-Gradignan (CENBG)	Gradignan	FRANCE
SILWAY	Gradignan	FRANCE
Laboratoire de Physique Subatomique et de cosmologie (LPSC)	Grenoble	FRANCE
Institut de Microélectronique, Electromagnétisme et Photonique (IMEP)	Grenoble	FRANCE
Laboratoire SPINTEC CEA/CNRS	Grenoble	FRANCE

Iroc	Grenoble	FRANCE
Ecole Nat. Sup. d'Electron. et de Radio Electricité	Grenoble	FRANCE
DEA de Microélectronique	Grenoble	FRANCE
Ecole Nat. Sup. d'Ingén. Electriciens	Grenoble	FRANCE
Institut Universitaire de Technologie	Grenoble	FRANCE
Conception de Systèmes Intégrés (CSI)	Grenoble	FRANCE
Techn. de l'Informatique et de la Microélec. pour l'Architecture d'Ordinateurs (TIMA)	Grenoble	FRANCE
Laboratoire des Images et Signaux (LIS ex. LTIRF)	Grenoble	FRANCE
Unité de Génie Matériel (Laboratoire Génie Informatique)	Grenoble	FRANCE
Thomson-CSF Semiconducteurs Spécifiques	Grenoble	FRANCE
Institut des Sciences Nucléaires	Grenoble	FRANCE
Ecole Nat. Sup. d'Inf. et de Mathém. Appliqués de Grenoble (ENSIMAG)	Grenoble	FRANCE
Laboratoire de Physique des Composants à Semiconducteurs (LPCS)	Grenoble	FRANCE
LETI / CEA	Grenoble	FRANCE
Université Joseph Fourier - ISTG	Grenoble	FRANCE
European Synchrotron Radiation Facility (ESRF – SYNCHROTRON)	Grenoble	FRANCE
CNRS – CRG – D2AM	Grenoble	FRANCE
Schneider Electric	L'Isle d'Espagnac	FRANCE
Midi Ingenierie	Labège	FRANCE
Ecole Nationale Supérieure de Sciences Appliquées et Technologie (ENSSAT)	Lannion	FRANCE
Laboratoire Le2i	Le Creusot	FRANCE
Institut Universitaire de Technologie de Sénart	Lieusaint	FRANCE
Institut Supérieur d'Electronique du Nord (ISEN)	Lille	FRANCE
Philips Microwave Limeil (PML)	Limeil Brevannes	FRANCE
SODERN	Limeil Brevannes	FRANCE
Institut de Recherche en Communications Optiques et Microondes (IRCOM)	Limoges	FRANCE
Capteur Microélectronique et Microoptique (C2M), Faculté des Sciences de Limoges	Limoges	FRANCE
Université de Limoges, DEA	Limoges	FRANCE
Institut de Physique Nucléaire de Lyon	Lyon	FRANCE
Laboratoire Image, Signal et Acoustique (LISA)	Lyon	FRANCE
Ecole Supérieure de Chimie Physique et Electronique (ESCPE - ICPI)	Lyon	FRANCE
L2MP Polytech	Marseille	FRANCE
Centre de Physique des Particules de Marseille (CPPM)	Marseille	FRANCE
Ecole Supérieure Ingénieurs de Marseille (ESIM - ISMEA)	Marseille	FRANCE
SAPHYMO	Massy	FRANCE
Advanced Electronic Design (AED)	Massy	FRANCE
Université de Metz, UFR Sci. F.A	Metz	FRANCE
Observatoire de Meudon / DESPA	Meudon	FRANCE
INVIA	Meyreuil	FRANCE
TIEMPO	Montbonnot	FRANCE
VALPTEK	Montbonnot St Martin	FRANCE
CORTUS SA	Montpellier	FRANCE
Institut d'Electronique du Sud	Montpellier	FRANCE
MENTA	Montpellier	FRANCE
Laboratoire d'Informatique, de Robotique et de Microélectronique de Montpellier	Montpellier	FRANCE
Université de Montpellier II - ISIM	Montpellier	FRANCE
Station de Radioastronomie de Nançay, CNRS	Nançay	FRANCE
SCHNEIDER Electric	Nanterre	FRANCE
SUBATECH	Nantes	FRANCE
Ecole de Mines de Nantes	Nantes	FRANCE
Institut de Rech. Enseign. Sup. Techn. et Electron.	Nantes	FRANCE
Ecole Sup. d'Ing. en Electrotech. et Electronique	Noisy le Grand	FRANCE
Laboratoire de Physique et Chimie de l'Environnement (LPCE)	Orléans	FRANCE
Institut d'Electronique Fondamentale	Orsay	FRANCE
WEEROC	Orsay	FRANCE
Laboratoire de Recherche en Informatique	Orsay	FRANCE
Laboratoire de l'Accélérateur Linéaire	Orsay	FRANCE

Laboratoire pour l'Utilisation du Rayonnement Electromagnétique (LURE)	Orsay	FRANCE
Thomson LCR	Orsay	FRANCE
Université de Paris Sud – Institut de Physique Nucléaire (IPN)	Orsay	FRANCE
Ecole Polytechnique	Palaiseau	FRANCE
Ecole Nationale Supérieure de Technologies Avancées (ENSTA)	Paris	FRANCE
AstroParticule et Cosmologie (APC)	Paris	FRANCE
Lab: d'Electronique et Electromagnétisme L2E	Paris	FRANCE
Lab. de Physique des Plasmas	Paris	FRANCE
Centre de Microélectronique de Paris Ile de France (CEMIP)	Paris	FRANCE
Labo. de Méthodes et Archi. de Syst. Informatiques (LAMSI)	Paris	FRANCE
Institut de Programmation	Paris	FRANCE
Ecole Nat. Sup. des Télécommunications (ENST)	Paris	FRANCE
Ecole Normale Supérieure	Paris	FRANCE
Institut Supérieur d'Electronique de Paris (ISEP)	Paris	FRANCE
Laboratoire de Physique Nucléaire et de Hautes Energies (LPNHE)	Paris	FRANCE
Université Pierre & Marie Curie, Dept d'Electronique	Paris	FRANCE
DEA de Microélectronique (PARIS 7)	Paris	FRANCE
Laboratoire d'Electronique Analogique et Micro-ondes (LEAM)	Paris	FRANCE
Laboratoire des Instruments et Systèmes (LIS)	Paris	FRANCE
Biospace Instruments	Paris	FRANCE
Conservatoire National des Arts et Métiers (CNAM)	Paris	FRANCE
Laboratoire des Instruments et Systèmes d'Ile de France (LISIF)	Paris	FRANCE
Secure IC SAS	Rennes	FRANCE
Institut de Rech. en Informat. et Syst. Aléatoires (IRISA)	Rennes	FRANCE
Institut National Sciences Appliquées (INSA)	Rennes	FRANCE
CSEE Transport	Riom	FRANCE
Institut Nat. de Recherche en Inform. et Automat.	Rocquencourt	FRANCE
Mixed Silicon Structures (MS2)	Roubaix	FRANCE
ATMEL ES2	Rousset	FRANCE
Centre d'Etudes Atomique (CEA)	Saclay	FRANCE
Lab. d'Electronique de Grenoble ENSIEG	Saint Martin d'Hères	FRANCE
Université de la Réunion	St Denis – Réunion	FRANCE
PHS MEMS	St Egrève	FRANCE
Laboratoire Hubert Curien	St Etienne	FRANCE
Faculté des Sciences, Laboratoire Traitement du Signal et Instrumentation	St Etienne	FRANCE
Institut Franco-Allemand de Recherches de St-Louis (ISL)	St Louis	FRANCE
Ecole Polytechnique	St Maur des Fossés	FRANCE
Leroy Automatique Industrielle	St Orens	FRANCE
Institut d'Electronique du Solide et des Systèmes	Strasbourg	FRANCE
Université Louis Pasteur	Strasbourg	FRANCE
Institut Pluridisciplinaire Hubert Curien (IPHC)	Strasbourg	FRANCE
Ec. Nat. Sup. d'Electronique, Infor. et de Radiocomm; de Bordeaux (ENSIERB)	Talence	FRANCE
Université de Bordeaux I - Laboratoire de Microélectronique (IMS)	Talence	FRANCE
Université de Bordeaux I - DESS	Talence	FRANCE
Centre Commun d'Enseignement Sup. de Microélectr. Avancée (CCESMAA)	Talence	FRANCE
Laboratoire de Matériaux et Microelectronique de Provence (L2MP)	Toulon	FRANCE
Centre de Recherche de l'ISEM (ISEN – Toulon)	Toulon	FRANCE
ALCATEL SPACE	Toulouse	FRANCE
Ec. Nat. Sup. d'Electronique d'Electrotechnique d'Inf. et d'Hydraulique (ENSEEIH)	Toulouse	FRANCE
Laboratoires d'Autom. et d'Analyse des Systèmes (LAAS)	Toulouse	FRANCE
Institut National Sciences Appliquées (INSA)	Toulouse	FRANCE
Institut Universitaire de Technologie, Dept GEII	Toulouse	FRANCE
Ecole Nationale d'Aviation Civile (ENAC)	Toulouse	FRANCE
SIEMENS Automotive	Toulouse	FRANCE
Atelier Interuniversitaire de MicroElectronique (AIME)	Toulouse	FRANCE
Ecole Supérieure de l'Aéronautique (Sup'Aéro)	Toulouse	FRANCE
Institut National Sciences Appliquées (INSA) Dept Génie Electrique (DGE)	Toulouse	FRANCE

Université Paul Sabatier, DESS	Toulouse	FRANCE
Centre d'Etude Spatiale des Rayonnements (CESR)	Toulouse	FRANCE
Centre National d'Etudes Spatiales (CNES)	Toulouse	FRANCE
NEURELEC	Vallauris	FRANCE
MXM	Vallauris	FRANCE
Université Henri Poincaré, DEA Instrumentation et Micro-électronique	Vandoeuvre	FRANCE
Ecole Nat. Sup. d'Electricite et de Mécanique	Vandoeuvre les Nancy	FRANCE
Laboratoire d'Instrumentation Electronique de Nancy (LIEN)	Vandoeuvre les Nancy	FRANCE
Laboratoire de Physique des Plasmas (LPP)	Velizy Villacoublay	FRANCE
MATRA Défense	Vélizy Villacoublay	FRANCE
SOFRADIR	Veurey Voroize	FRANCE
Institut d'Electronique et de Microélectronique du Nord (IEMN)	Villeneuve d'Ascq	FRANCE
Université des Sciences et Techniques de Lille	Villeneuve d'Ascq	FRANCE
Laboratoire d'Informatique Fondamentale de Lille	Villeneuve d'Ascq	FRANCE
Laboratoire de Physique des Lasers, Institut Galilée	Villetaneuse	FRANCE
Institut de Physique Nucléaire	Villeurbanne	FRANCE
Institut National Sciences Appliquées (INSA)	Villeurbanne	FRANCE
Laboratoire Image, Signal et Acoustique (LISA)	Villeurbanne	FRANCE
CEGELY	Villeurbanne	FRANCE
Laboratoire d'Electronique de Nanotechnologies et Capteurs (LENAC)	Villeurbanne	FRANCE
Rheinisch Westfalische Technische Hochschule (RWTH)	Aachen	GERMANY
Fachhochschule Augsburg	Augsburg	GERMANY
Ruhr Universität Bochum	Bochum	GERMANY
Micram Microelectronic GmbH	Bochum	GERMANY
EUROCHIP	Bonn	GERMANY
Darmstadt Univ. of Techno., Inst. of Microelectronic Systems	Darmstadt	GERMANY
Fraunhofer Inst. F. Integrierte Schaltungen IIS	Erlangen	GERMANY
Instit. für Matem. Maschin.& Datenverarbei.	Erlangen	GERMANY
Universität Heidelberg, IHEP	Heidelberg	GERMANY
Universitaet Heidelberg, Gesell. Schwerion. mbH	Heidelberg	GERMANY
NAOMI TECHNOLOGIES AG	Mainz	GERMANY
University of Applied Sciences	Munich	GERMANY
Paderborn University, Dept of Electrical Eng. & Inf. Techno	Paderborn	GERMANY
Robert Bosch GmbH	Reutlingen	GERMANY
University of Saarland, Institute of Microelectronics	Saarbrücken	GERMANY
SCANDITRONIX WELLHOFER	Scwarzenbruck	GERMANY
University of Stuttgart, Institute of Electrical & Optical Comm. Eng.	Stuttgart	GERMANY
University of Stuttgart - INT	Stuttgart	GERMANY
Hahn-Schickard-Gessellschaft - IMIT	Villingen-Schwenningen	GERMANY
University of Wuppertal	Wuppertal	GERMANY
National Technical University of Athens	Athens	GREECE
AMBIT Ltd	Athens	GREECE
NCSR "Demokritos", Institute of Microelectronics	Athens	GREECE
Aristotle University of Thessaloniki	Thessaloniki	GREECE
City University of Hong Kong	Hong Kong	HONG KONG
Hong Kong Polytechnic University - EI Dept.	Kowloon	HONG KONG
Hong Kong Univ. of Sc. & Technology - ECE Dept.	Kowloon	HONG KONG
Hong Kong Univ. of Sc. & Technology - EEE Dept.	Kowloon	HONG KONG
Hong Kong Univ. of Sc. & Technology - IPEL	Kowloon	HONG KONG
The Chinese University of Hong Kong - Dept EI. Eng.	Shatin	HONG KONG
The Chinese Univ.of Hong Kong - CSE	Shatin	HONG KONG
Vocational training Council - EDT Training Center	Wanchai	HONG KONG
Technical University of Budapest	Budapest	HUNGARY
Micred Ltd	Budapest	HUNGARY
Centre for Development of Advanced Computing (C-DAC)	Kerala	INDIA
Indian Institute of Technology	Kharagpur	INDIA
Indian Institute of Technology Bombay (IIT Bombay)	Mumbai, Maharashtra	INDIA

Jaypee Inst. of Information Technology	Noida	INDIA
Laboratorium Elecktronika	Bandung	INDONESIA
Gunadarma U.	Jakarta	INDONESIA
Sharif University of Technology - Electronic Center	Tehran	IRAN
Sharif University of Technology - Elect. Eng. Dept	Tehran	IRAN
Queen's University of Belfast	Belfast	IRELAND
TYNDALL National Institute	Cork	IRELAND
University College Cork	Cork	IRELAND
Technion Israel Institute of Technology	Haifa	ISRAEL
ECI Telecom	Tirat Hacarmel	ISRAEL
Universita del Piemonte Orientale	Alessandria	ITALY
Universita degli Studi di Ancona Dipto di El. ed Automatica	Ancona	ITALY
Istituto Nazional di Fisica Nucleare (INFN)	Bari	ITALY
Politecnico di Bari, Dipto de Elettrotecnica & Elettronica	Bari	ITALY
Università di Bergamo	Dalmine	ITALY
University of Firenze, Dept Elect. & Telec.	Firenze	ITALY
Universita degli Studi di Firenze, Dipto d' Elettronica & Telocomunicazioni	Firenze	ITALY
Université di Firenze, Dip. Ing. Elettronica Microelectronica	Firenze	ITALY
Osservatorio Astrofisico di Arcetri	Firenze	ITALY
Université Dell'Aquila, Dip. di Ing. Elettrica	L'Aquila	ITALY
University of Salento	Lecce	ITALY
Politecnico di Milano, Dipto Chimica, Materiali Ing. Chimica "Giulio Natta"	Milano	ITALY
U. of Milano Bicocca	Milano	ITALY
Univ. of Modena & Reggio Emilia, Dip. Ing. Informazione	Modena	ITALY
University of Naples - Dept of Electronics	Napoli	ITALY
Istituto Nazional di Fisica Nucleare (INFN), Dipto di Scienze Fisiche	Napoli	ITALY
Universita di Padova	Padova	ITALY
IMEM-CNR, Dipto di Ingegneria dell'Informazione	Parma	ITALY
Istituto Nazionale di Fisica Nucleare	Pavia	ITALY
Univ. degli studi di Pavia	Pavia	ITALY
Università degli Studi di perugia	Perugia	ITALY
Aurelia Microelettronica S.p.a.	Pisa	ITALY
Istituto Nazionale di Fisica Nucleare	Pisa	ITALY
Universita di Pisa, Dipto di Fisica	Pisa	ITALY
Universita di Pisa, Dipto di Ingegneria dell'Informazione	Pisa	ITALY
Istituto Trentino di Cultura	Povo (Trento)	ITALY
Fondazione Bruno Kessler	Povo (Trento)	ITALY
Universita Mediterranea di Reggio Calabria	Reggio Calabria	ITALY
University of Calabria, Microelectronic Design Lab.	Rende	ITALY
Universita di Roma Tor Vergata, Dip. de Ing. Elettronica	Roma	ITALY
Universita La Sapienza, Dipto di Ing. Elettronica	Roma	ITALY
Istituto nazionale di Fisica Nucleare (INFN), sezione di Roma	Roma	ITALY
INTERLAB S.r.l.	Roma	ITALY
Istituto Nazional di Fisica Nucleare (INFN)	Torino	ITALY
Politecnico di Torino	Torino	ITALY
Microprocessor Laboratory, ICTP/INFN	Trieste	ITALY
Costruzion Apparecchiature Elettroniche Nucleari (C.A.E.N)	Viareggio	ITALY
Optoellettronica Italia S.r.l.	Tergalo	ITALY
Toyota R&D Labs	Aichi	JAPAN
Technology Research Laboratory of Clarion Co Ltd	Fukusima	JAPAN
Shizuoka University, Research Institute of Electronics	Hamamatsu	JAPAN
Hiroshima University	Hiroshima	JAPAN
SILICONSORTIUM Ltd	Hyogo	JAPAN
Matsushita Electric Industrial Co. Ltd	Kawasaki	JAPAN
Kyoto University, Dept of Elec. and Comm.	Kyoto	JAPAN
ASTEM RI	Kyoto	JAPAN
Micro Signal Co. Lte	Kyoto	JAPAN

WAKEN Co, Ltd	Kyoto	JAPAN
Nara Institute of Science and Technology (NAIST)	Nara	JAPAN
Shibaura Institute of Technology	Omiya	JAPAN
HSD co Ltd	Saitama	JAPAN
Hokkaido University, Department of Electronic Engineering	Sapporo	JAPAN
Tohoku University, Graduate School of Inf. Sciences	Sendai	JAPAN
Tohoku University, Research Institute of Electrical Comm.	Sendai	JAPAN
Tohoku University, Kameyama Laboratory	Sendai	JAPAN
Tohoku University, DCMS	Sendai	JAPAN
Tohoku University - Koyanagi Lab	Sendai	JAPAN
University of Tokyo, Dept of Math. Eng. & Informatic Physics	Tokyo	JAPAN
OKI Electric Industry Co, Ltd	Tokyo	JAPAN
Tokyo University of Science, DEE	Tokyo	JAPAN
University of Tokyo, Ishikawa-Hashimoto Lab.	Tokyo	JAPAN
Tokyo University of Agriculture & Technology, ISHII Laboratory	Tokyo	JAPAN
Tokyo University of Science, Dept of Electrical Engineering	Tokyo	JAPAN
Maruwa Sokki Co LTd	Tokyo	JAPAN
University of Tokyo, Dept of Electrical Engineering, Hatori-Aizawa Lab.	Tokyo	JAPAN
Tokyo Institute of Technology, Masu Laboratory	Yokohama	JAPAN
Electronics and Telecommunication Research Institute (ETRI)	Gwangju	KOREA
Kyung Hee Univ.	Gyeonggi-Do	KOREA
Korea Telecom	Seoul	KOREA
Chungnam National University – Dept of Electronics Engineering	Taejon	KOREA
Korea Advanced Institute of Science and Technology (KAIST)	Taejon	KOREA
University of Macao	Taipa	MACAO
University Technology of Petronas	Perak	MALAYSIA
TM Research & Development Sdn Bhd	Serlangor	MALAYSIA
University of Malta, Department of Microelectronics	Msida	MALTA
Instituto Nacional de Astrofisica, Optica y Electronica (INAOE)	Puebla	MEXICO
ISSIS b.v.	Budelshoot	NETHERLANDS
Technical University of Delft	Delft	NETHERLANDS
Delft University of Technology, ITS/OED	Delft	NETHERLANDS
Catena Holding B.V.	Delft	NETHERLANDS
Philips Research	Eindhoven	NETHERLANDS
Hogeschool Enschede	Enschede	NETHERLANDS
ALMA Electronic System Design	Enschede	NETHERLANDS
AEMICS	Enschede	NETHERLANDS
University of Twente	Enschede	NETHERLANDS
Buro Van der Valk (XIC)	Rotterdam	NETHERLANDS
TNO - Physics and Electronics Laboratory	The Hague	NETHERLANDS
Industrial Research Ltd	Lower Hutt	NEW ZEALAND
Nordic VLSI	Flatasen	NORWAY
Novelda AS	Kviteseid	NORWAY
University of Oslo, Dept of Informatics	Oslo	NORWAY
University of Trondheim, Dept of Physical Electronics	Trondheim	NORWAY
SINTEF DELAB	Trondheim	NORWAY
Norwegian University of Science and Technology, Dept of Electronics & Telecomm.	Trondheim	NORWAY
Ghulam Ishaq Khan Institute of Engineering Sciences & Technology	Topi	PAKISTAN
University of the Philippines Diliman	Quezon City	PHILIPPINES
Technical University of Koszalin	Koszalin	POLAND
University of Mining and Metallurgy (AGH), Inst. of Electronics	Krakow	POLAND
Krakow Design Consultants	Krakow	POLAND
Technical University of Lodz	Lodz	POLAND
Poznan University of Technology	Poznan	POLAND
Institute of Electron Technology	Warsaw	POLAND
Warsaw Univ. of Techn. (Inst. Mikroelek. Optoelek.)	Warsaw	POLAND
Warsaw Univ. of Techn. (Inst. of Electronic Systems)	Warsaw	POLAND

University of Aveiro, GCO-DET	Aveiro	Portugal
Instituto de Telecomunicações	Aveiro	PORTUGAL
LIP	Lisbon	PORTUGAL
Inst. de Engenharia de Sistemas e Computad.	Lisbon	PORTUGAL
New U. of Lisbon	Monte de Caparica	PORTUGAL
TECMIC	Oeiras	PORTUGAL
Qatar University - Electrical Engineering Dept	Doha	QATAR
IMT	Bucharest	ROMANIA
IRIMEL	Moscou	RUSSIA
Samsung Electronics	Moscou	RUSSIA
SIBELL Research Center	Novosibirsk	RUSSIA
Granch Ltd	Novosibirsk	RUSSIA
University of Petroleum and Minerals	Dhahran	SAUDI ARABIA
Mihajlo Pupin Institute	Beograd	SERBIA
University of Nis, Electronski Fakultet	Nis	SERBIA
Nanyang Technological University EEE	Singapore	SINGAPORE
Agilis Communication Technologies Pte Ltd	Singapore	SINGAPORE
Centre Wireless Communication	Singapore	SINGAPORE
DSO Nationals Labs.	Singapore	SINGAPORE
National University of Singapore, DEE	Singapore	SINGAPORE
National University of Singapore, DECI	Singapore	SINGAPORE
National University of Singapore, ECE	Singapore	SINGAPORE
National University of Singapore, DME	Singapore	SINGAPORE
Insitute for Infocomms Research	Singapore	SINGAPORE
Singapore Polytechnic, School of Electrical & Electronic Engineering	Singapore	SINGAPORE
Temasek Laboratories at Nanyang Technological University	Singapore	SINGAPORE
MEDs Technologies Pte Ltd	Singapore	SINGAPORE
University of Pretoria	Pretoria	SOUTH AFRICA
Universitat of Barcelona, Dept Electronica	Barcelona	SPAIN
Universitat de Barcelona, Dept d'Estructura i Constituents de la Matèria (ECM)	Barcelona	SPAIN
Universidad Autonoma de Barcelona	Barcelona	SPAIN
Universidad Politecnica de Catalunya	Barcelona	SPAIN
Universidad Las Palmas de Gran Canaria	Las Palmas Gran Canaria	SPAIN
ETSI Telecomunicacion	Las Palmas Gran Canaria	SPAIN
Universidad Carlos III de Madrid, Dpto Tecnologia Electronica	Leganes (Madrid)	SPAIN
Universidad Politecnica de Madrid	Madrid	SPAIN
Universidad de las Islas Baleares	Palma	SPAIN
Balearics Islands University	Palma de Mallorca	SPAIN
CEIT (Centro de Estudios e Investigaciones Técnicas)	San Sebastien	SPAIN
Universidad de Cantabria, Dpto Ingenieria de Comunicaciones	Santander	SPAIN
University of Santiago de Compostela	Santiago de Compostela	SPAIN
Instituto de Microelectronica de Sevilla (IMSE)	Sevilla	SPAIN
Universidad de Sevilla	Sevilla	SPAIN
Universidade Politecnica de Valencia	Valencia	SPAIN
Chalmers University, Microwave Eletronics Lab.	Goteborg	SWEDEN
Chalmers University, Kungl Tekniska Hogskotan	Goteborg	SWEDEN
Chalmers University - Computer Engineering	Goteborg	SWEDEN
Chalmers University - VLSI Research Group	Goteborg	SWEDEN
st Jude Medical AB	Jarfalla	SWEDEN
Defence Research Establ.	Linköping	SWEDEN
Linköping University, Department of Electrical Engineering	Linköping	SWEDEN
Linköping University, ISY	Linköping	SWEDEN
SP Devices AB	Linköping	SWEDEN
University of Lund, Dept of Applied Electronics	Lund	SWEDEN
ACREO AB	Norkoping	SWEDEN
Ericsson AB	Stockholm	SWEDEN
Swedish Institute of Microelectronics	Stockholm-Kista	SWEDEN

IBA Scandronix Medical AB	Uppsala	SWEDEN
Berne University of Applied Sciences	Biel	SWITZERLAND
CERN	Geneva	SWITZERLAND
Ecole d'Ingénieurs de Genève	Geneva	SWITZERLAND
D.i.a.c.v. SA	Grand-Lancy	SWITZERLAND
Ecole Polytechnique Fédérale de Lausanne / MANTRA	Lausanne	SWITZERLAND
Ecole Polytechnique Fédérale de Lausanne / DMT-IMT	Lausanne	SWITZERLAND
Smart Silicon Systems	Lausanne	SWITZERLAND
Ecole Polytechnique Fédérale de Lausanne / LEG	Lausanne	SWITZERLAND
Centre Suisse d'Electronique et de Microtechnique S.A	Neuchatel	SWITZERLAND
Université de Neuchatel, Institut de Microtechnology	Neuchatel	SWITZERLAND
Technikum Winterthur Ingenieurschule (TWI)	Winterthur	SWITZERLAND
Eidgenoessische Technische Hochschule (ETH) - IFH	Zurich	SWITZERLAND
Eidgenoessische Technische Hochschule (ETH) - IIS	Zurich	SWITZERLAND
Eidgenoessische Technische Hochschule (ETH) - SIPL	Zurich	SWITZERLAND
Eidgenoessische Technische Hochschule (ETH) - IQE	Zurich	SWITZERLAND
Eidgenoessische Technische Hochschule (ETH) - ISL	Zurich	SWITZERLAND
Eidgenoessische Technische Hochschule (ETH) - IFQ	Zurich	SWITZERLAND
Wireless Comm. Laboratory, National Chang-Chen University	Chiayi	TAIWAN
National Central University, NCU-SS Laboratory	Chung-Li	TAIWAN
National Science Council – Precision Instrument Development Center	Hsinchu	TAIWAN
National Chiao-Tung Univ., Institute of Electronics	Hsinchu	TAIWAN
Inst. Phys. Academia Sinica	Hsinchu	TAIWAN
Airwave Technology Inc.	Hsinchu	TAIWAN
National Taiwan Univ., Institute of Electrical Engineering	Taipei	TAIWAN
National Taiwan Univ., MBE Laboratory	Taipei	TAIWAN
National Taiwan Univ., MEMS Laboratory	Taipei	TAIWAN
National Taiwan Univ. National Graduate Inst. of Communication Engineering	Taipei	TAIWAN
Tatung Institute of Technology, Dept of Electrical Engineering	Taipei	TAIWAN
NECTEC	Bangkok	THAILAND
Ecole Nat. des Sciences de l'Informatique	Tunis	TUNISIA
Tubitak Bilten	Ankara	TURKEY
Middle East Tech. University	Ankara	TURKEY
Bogazici University, BETA Laboratory	Ankara	TURKEY
Mikroelektronik ArGe Tas ve Tic Ltd Sti	Ankara	TURKEY
Istanbul Technical University - ETA Design Center	Istanbul	TURKEY
Mikroelektronik Arastirma Gelistirme Tasarim	Istanbul	TURKEY
Dogus University	Istanbul	TURKEY
Al Rezwan Electronics Trading Est.	Dubai	UAE
University of Bath, Dept of Electronic and Electrical Engineering	Bath	UNITED KINGDOM
Bournemouth Polytechnic	Bournemouth	UNITED KINGDOM
Cambridge University, Engineering Department	Cambridge	UNITED KINGDOM
Midas Green Ltd	Cambridge	UNITED KINGDOM
Microcosm Communications Ltd	Chichester	UNITED KINGDOM
University of Warwick	Coventry	UNITED KINGDOM
Silicon Contact Ltd.	Croydon	UNITED KINGDOM
The University of Birmingham, Electrical & Electronic Eng. School	Edgbaston	UNITED KINGDOM
EDA Solutions Ltd	Fareham	UNITED KINGDOM
British Telecom Labs.	Ipswich	UNITED KINGDOM
University of Leeds, School of Electronic & Electrical Engineering	Leeds	UNITED KINGDOM
Middlesex University	London	UNITED KINGDOM
University of London VLSI Consortium	London	UNITED KINGDOM
University College London	London	UNITED KINGDOM
King's College London, Dept of Electronic & Electrical Engineering	London	UNITED KINGDOM
KJ Analogue Consulting	Malmesbury	UNITED KINGDOM
University of Manchester	Manchester	UNITED KINGDOM
University of Newcastle Upon Tyne	Newcastle	UNITED KINGDOM

University of Nottingham	Nottingham	UNITED KINGDOM
Zetex plc.	Oldham	UNITED KINGDOM
ACAPELLA	Southampton	UNITED KINGDOM
University of Southampton, Dept of Electronics & Computer Science	Southampton	UNITED KINGDOM
Staffordshire University, School of Engineering and Advanced Technology	Stafford	UNITED KINGDOM
University of York	York	UNITED KINGDOM
Facultad de Ingenieria, Instituto de Ingenieria Electrica	Montevideo	URUGUAY
Univ. De la Republica Uruguay, Inst. De Ingeniera Electrica	Montevideo	URUGUAY
Newlans Incs.	Acton	USA
Iowa State University	Ames	USA
University of Massachusetts	Amherst	USA
University of Michigan, Dept EECS	Ann Arbor	USA
Georgia Institute of Technology	Atlanta	USA
John Hopkins University	Baltimore	USA
Fermi National Accelerator Lab. (FERMILAB)	Batavia	USA
Berkeley Wireless Research Center	Berkeley	USA
University of California	Berkeley	USA
Boston University, ECE Department	Boston	USA
National Institute of Standards & Technology (NIST)	Boulder	USA
Massachusetts Institute of Technology	Cambridge	USA
University of Virginia - DECE	Charlottesville	USA
Clemson University	Clemson	USA
The Ohio State University	Columbus	USA
Obsidian Technology	Dana Point	USA
University of California, Dept of Electrical & Computer Engineering	Davis	USA
Cedars Semiconductor Corp.	Dublin	USA
Univ. of Florida	Gainesville	USA
Georgia Electronic Design Center	Georgia	USA
NASA's Goddard Space Flight Center (GSFC)	Greenbelt	USA
Columbia University, NEVIS Lab.	Irvington	USA
Achronix Semiconductor LLC	Ithaca	USA
Cornell U.	Ithaca	USA
University of California, San Diego	La Jolla	USA
Utah State U.	Logan	USA
University of California, Los Angeles - El. Eng. Dept.	Los Angeles	USA
Systemchip	Los Gatos	USA
MOSIS	Marina del Rey	USA
Stanford Linear Accelerator Center (SLAC)	Menlo Park	USA
SUN Microsystems	Menlo Park	USA
Honeywell Inc.	Minneapolis	USA
University of Minnesota	Minneapolis	USA
Columbia University, CISL	New York	USA
California Institute of Technology	Pasadena	USA
University of Pennsylvania	Philadelphia	USA
Carnegie Mellon University, ECE Dept	Pittsburgh	USA
The University of Texas at Dallas - ECSN	Richardson	USA
The University of Texas at Dallas - EE Dept.	Richardson	USA
University of Rochester	Rochester	USA
University of Washington, Dept of Electrical Engineering	Seattle	USA
Stanford University	Stanford	USA
SIBeam, Inc	Sunnyvale	USA
Arizona State University	Tempe	USA
Rensselaer Polytechnic Inst.	Troy	USA
Radiation Monitoring devices	Watertown	USA

APPENDIX 5: History of CMP projects 1981-2014

The following tables summarize the history of CMP projects since 1981

Year	Foundry	Technology NAME	Technology TYPE	Gate (μ)	Nb of runs
1981	UCL	UCL	NMOS	8	1
1982	CNET	NMOS/NC	NMOS	4.5	1
1983	CNET	NMOS/L3	NMOS	3.15	1
1984	CNET	NMOS/L3	NMOS	3.15	2
1984	MHS	CMOS/Saj4	CMOS	3.5	1
1985	MHS	CMOS/Saj5	CMOS	2	1
1985	THOMS	NMOS/hm1	NMOS	3.5	1
1986	MHS	CMOS/Saj5	CMOS	2	1
1986	THOMS	NMOS/hm1	NMOS	3.5	1
1987	ES2	ECDM20	CMOS	2	3
1987	MHS	CMOS/Saj5	CMOS	2	1
1988	ES2	ECDM20	CMOS	2	4
1989	ES2	ECDM20	CMOS	2	5
1990	ES2	ECDM20	CMOS	2	5
1990	ES2	ECPD15	CMOS	1.5	3
1990	TCMS	Polyuse L12	Bipolar	-	1
1991	AMS	CBE	CMOS	2	3
1991	ES2	ECDM20	CMOS	2	2
1991	ES2	ECPD12	CMOS	1.2	3
1991	ES2	ECPD15	CMOS	1.5	4
1991	TCMS	Polyuse L12	Bipolar	-	2
1992	AMS	CAE	CMOS	1.2	4
1992	AMS	CBE	CMOS	2	5
1992	ES2	ECPD12	CMOS	1.2	5
1992	ES2	ECPD15	CMOS	1.5	6
1992	TCMS	Polyuse L12	Bipolar	-	3
1993	AMS	BAB/CAE	BiCMOS	1.2	1
1993	AMS	CAE	CMOS	1.2	6
1993	AMS	CBE	CMOS	2	1
1993	ES2	ECPD10	CMOS	1.0	2
1993	ES2	ECPD12	CMOS	1.2	5
1993	ES2	ECPD15	CMOS	1.5	4
1993	TCS	HgaAsII	Dig. GaAs	0.8	3
1993	TCS	Polyuse L12	Bipolar	-	3
1994	AMS	BAE	BiCMOS	1.2	3
1994	AMS	CAE	CMOS	1.2	6
1994	AMS	CYB	CMOS	0.8	3
1994	ES2	ECPD07	CMOS	0.7	1
1994	ES2	ECPD10	CMOS	1.0	5
1994	ES2	ECPD12	CMOS	1.2	4
1994	ES2	ECPD15	CMOS	1.5	3
1994	STM	HCMOS5	CMOS	0.5	1
1994	TCS	Polyuse L12	Bipolar	-	4
1994	VSC	HgaAs-II	Dig. GaAs	0.8	1
1994	VSC	HgaAs-3	Dig. GaAs	0.6	1
1995	AMS	BAE	BiCMOS	1.2	4
1995	AMS	BYE	BiCMOS	0.8	2
1995	AMS	CAE	CMOS	1.2	5
1995	AMS	CYE	CMOS	0.8	4
1995	ATMEL ES2	ECPD07	CMOS	0.7	4
1995	ATMEL ES2	ECPD10	CMOS	1.0	6
1995	ATMEL ES2	ECPD12	CMOS	1.2	2
1995	PML	D02AH	HEMT GaAs	0.2	2
1995	TCS	Polyuse L12	Bipolar	-	2
1995	VSC	HgaAs-3	Dig. GaAs	0.6	3
1996	AMS	BAE	BiCMOS	1.2	5
1996	AMS	BYE	BiCMOS	0.8	4
1996	AMS	CAE	CMOS	1.2	6
1996	AMS	CYE	CMOS	0.8	4
1996	ATMEL ES2	ECPD07	CMOS	0.7	8
1996	ATMEL ES2	ECPD10	CMOS	1.0	9
1996	ATMEL ES2	ECPD12	CMOS	1.2	1
1996	PML	D02AH	HEMT GaAs	0.2	2
1996	TCS	Polyuse L12	Bipolar	-	1
1996	VSC	HGaAs-3	Dig. GaAs	0.6	3
1997	ATMEL ES2	ECPD07	CMOS	0.7	11

1997	AMS	BAE	BiCMOS	1.2	3
1997	AMS	BYE	BiCMOS	0.8	8
1997	AMS	CAE	CMOS	1.2	6
1997	AMS	CYE	CMOS	0.8	9
1997	AMS	CUE	CMOS	0.6	2
1997	VSC	HGaAs-3	Dig. GaAs	0.6	3
1997	PML	D02AH	HEMT GaAs	0.2	2
1998	ATMEL ES2	ECPD07	CMOS	0.7	3
1998	AMS	CAE	CMOS	1.2	5
1998	AMS	CYE	CMOS	0.8	4
1998	AMS	CUE/CX06AA	CMOS	0.6	5
1998	AMS	BAE	BiCMOS	1.2	3
1998	AMS	BYE/BYQ	BiCMOS	0.8	6
1998	VSC	HGaAs-IV	Dig. GaAs	0.5	1
1998	PML	D02AH	HEMT GaAs	0.2	2
1998	STM	HCMOS7	CMOS	0.25	2
1998	CRONOS	MUMPs	Surf. Micromach.	2	3
1999	AMS	CAE	CMOS	1.2	3
1999	AMS	CYE	CMOS	0.8	7
1999	AMS	CUP	CMOS	0.6	7
1999	AMS	CSD	CMOS	0.35	2
1999	AMS	BYE	BiCMOS	0.8	4
1999	AMS	BYQ	HBT CMOS	0.8	2
1999	PML	HCMOS7	CMOS	0.25	3
1999	PML	ED02AH	HEMT GaAs	0.2	3
1999	CRONOS	MUMPs	Surf. Micromach.	0.2	3
2000	AMS	CYE	CMOS	0.8	4
2000	AMS	CXQ	CMOS	0.8	1
2000	AMS	CUP	CMOS	0.6	5
2000	AMS	CSI	CMOS	0.35	4
2000	AMS	BAE	BiCMOS	1.2	1
2000	AMS	BYE/BYQ	BiCMOS	0.8	7
2000	AMS	BYR	SiGe BiCMOS	0.8	6
2000	STMicroelectronics	HCMOS7	CMOS	0.25	8
2000	STMicroelectronics	HCMOS8	CMOS	0.18	1
2000	OMMIC	ED02AH	HEMT GaAs	0.2	2
2000	CRONOS	MUMPs	Surf. Micromac.	2	3
2000	OMMIC	ED02AH	HEMT GaAs	0.2	2
2000	CRONOS	MUMPs	Surf. Micromac.	2	3
2001	austriamicrosystems	CSI	CMOS	0.35	5
2001	austriamicrosystems	CUP	CMOS	0.6	8
2001	austriamicrosystems	BYE/BYQ	BiCMOS	0.8	7
2001	austriamicrosystems	CYE	CMOS	0.8	5
2001	austriamicrosystems	BYR	SiGe BiCMOS	0.8	6
2001	CRONOS	MUMPs	Surf. Micromac.	2	2
2001	PEREGRINE	FC	SOS CMOS	0.5	2
2001	OMMIC	ED02AH	HEMT GaAs	0.2	2
2001	STMicroelectronics	HCMOS8	CMOS	0.18	5
2001	STMicroelectronics	HCMOS7	CMOS	0.25	4
2002	austriamicrosystems	CBK	CMOS High Volt.	2	1
2002	austriamicrosystems	CYE	CMOS	0.8	5
2002	austriamicrosystems	CUP	CMOS	0.6	8
2002	austriamicrosystems	CSI	CMOS	0.35	6
2002	austriamicrosystems	BYE/BYQ	BiCMOS	0.8	7
2002	austriamicrosystems	BYR	SiGe BiCMOS	0.8	6
2002	STMicroelectronics	HCMOS8	CMOS	0.18	7
2002	STMicroelectronics	BiCMOS6G	SiGe BiCMOS	0.35	3
2002	OMMIC	ED02AH	HEMT GaAs	0.2	1
2002	PEREGRINE	FC	SOS CMOS	0.5	1
2003	austriamicrosystems	CBK	CMOS High Volt.	2	1
2003	austriamicrosystems	CYE	CMOS	0.8	4
2003	austriamicrosystems	BYE/BYQ	BiCMOS	0.8	7
2003	austriamicrosystems	BYR	SiGe BiCMOS	0.8	1
2003	austriamicrosystems	CUP	CMOS	0.6	6
2003	austriamicrosystems	CSI	CMOS	0.35	6
2003	austriamicrosystems	B35D4	BiCMOS	0.35	1
2003	austriamicrosystems	S35D4	SiGe BiCMOS	0.35	1
2003	STMicroelectronics	HCMOS8	CMOS	0.18	5
2003	STMicroelectronics	HCMOS9	CMOS	0.12	1
2003	STMicroelectronics	BiCMOS6G	SiGe BiCMOS	0.35	2
2003	OMMIC	ED02AH	HEMT GaAs	0.2	2
2003	PEREGRINE	FC	SOS CMOS	0.5	1
2003	MEMSCAP	PolyMUMPs	MEMS	NA	2
2003	MEMSCAP	SOIMUMPs	MEMS	NA	1

2004	austriamicrosystems	CYE	CMOS	0.8	5
2004	austriamicrosystems	BYE/BYQ	BiCMOS	0.8	3
2004	austriamicrosystems	CUP	CMOS	0.6	5
2004	austriamicrosystems	C35B4C3 / C35B3O1	CMOS	0.35	5
2004	austriamicrosystems	C35B4M3	CMOS RF	0.35	1
2004	austriamicrosystems	S35D4	SiGe BiCMOS	0.35	4
2004	STMicroelectronics	HCMOS8	CMOS	0.18	2
2004	STMicroelectronics	HCMOS9	CMOS	0.12	5
2004	STMicroelectronics	BiCMOS6G	SiGe BiCMOS	0.35	2
2004	OMMIC	ED02AH	HEMT GaAs	0.2	2
2004	MEMSCAP	PolyMUMPS	MEMS	NA	3
2005	austriamicrosystems	BYE/BYQ	BiCMOS	0.8	1
2005	austriamicrosystems	CUP	CMOS	0.6	3
2005	austriamicrosystems	C35B4C3 / C35B3O1	CMOS	0.35	9
2005	austriamicrosystems	C35B4M3	CMOS RF	0.35	2
2005	austriamicrosystems	S35D4	SiGe BiCMOS	0.35	5
2005	STMicroelectronics	HCMOS8	CMOS	0.18	1
2005	STMicroelectronics	HCMOS9	CMOS	0.12	7
2005	STMicroelectronics	CMOS090	CMOS	90 nm	6
2005	STMicroelectronics	BiCMOS6G	SiGe BiCMOS	0.35	1
2005	STMicroelectronics	BiCMOS7RF	SiGe:C BiCMOS	0.25	1
2005	OMMIC	ED02AH	HEMT GaAs	0.2	2
2005	MEMSCAP	PolyMUMPS	MEMS	NA	2
2006	austriamicrosystems	C35B4C3 / C35B3O1	CMOS	0.35	10
2006	austriamicrosystems	C35B4M3	CMOS RF	0.35	3
2006	austriamicrosystems	H35B4D3	CMOS High Volt.	0.35	3
2006	austriamicrosystems	S35D4	SiGe BiCMOS	0.35	4
2006	austriamicrosystems	CUP	CMOS	0.6	1
2006	STMicroelectronics	HCMOS9	CMOS	0.12	5
2006	STMicroelectronics	CMOS090	CMOS	90 nm	5
2006	STMicroelectronics	BiCMOS7RF	SiGe:C BiCMOS	0.25	2
2006	STMicroelectronics	CMOS065	CMOS	65 nm	1
2006	OMMIC	ED02AH	HEMT GaAs	0.2	1
2006	MOSIS/IBM	6RF	CMOS	0.25	1
2006	CSMC	CSMC 0.6 CMOS	CMOS	0.6	1
2006	MEMSCAP	MetalMUMPS	MEMS	NA	2
2006	MEMSCAP	PolyMUMPS	MEMS	NA	2
2006	MEMSCAP	SOIMUMPS	MEMS	NA	1
2007	austriamicrosystems	BYE/BYQ	BiCMOS	0.8	3
2007	austriamicrosystems	C35B4C3 / C35B3O1	CMOS	0.35	8
2007	austriamicrosystems	C35B4M3	CMOS RF	0.35	1
2007	austriamicrosystems	S35D4	SiGe BiCMOS	0.35	4
2007	austriamicrosystems	H35B4D3	CMOS High Volt.	0.35	4
2007	STMicroelectronics	HCMOS9	CMOS	0.12	9
2007	STMicroelectronics	CMOS090	CMOS	90 nm	4
2007	STMicroelectronics	CMOS065	CMOS	65 nm	5
2007	STMicroelectronics	BiCMOS7RF	SiGe:C BiCMOS	0.25	3
2007	OMMIC	ED02AH	HEMT GaAs	0.2	2
2007	CSMC	CSMC 0.6 CMOS	CMOS	0.6	1
2007	MEMSCAP	MetalMUMPS	MEMS	NA	2
2007	MEMSCAP	PolyMUMPS	MEMS	NA	4
2008	austriamicrosystems	C35B4C3 / C35B4O1	CMOS	0.35	12
2008	austriamicrosystems	C35B4M3	CMOS RF	0.35	3
2008	austriamicrosystems	S35D4M5	SiGe BiCMOS	0.35	4
2008	austriamicrosystems	H35B4D3	CMOS High Volt.	0.35	3
2008	STMicroelectronics	CMOS090	CMOS	90nm	5
2008	STMicroelectronics	CMOS130	CMOS	130nm	4
2008	STMicroelectronics	BiCMOS7RF	SiGe:C BiCMOS	0.25	3
2008	STMicroelectronics	CMOS45	CMOS	45nm	2
2008	STMicroelectronics	CMOS65	CMOS	65nm	6
2008	MEMSCAP	PolyMUMPS	MEMS	NA	3
2008	MEMSCAP	SOIMUMPS	MEMS	NA	3
2008	MEMSCAP	MetalMUMPS	MEMS	NA	2
2008	OMMIC	ED02AH	HEMT GaAs	0.2	1
2009	austriamicrosystems	C35B4C3 / C35B4O1	CMOS	0.35	7
2009	austriamicrosystems	C35B4M3	CMOS RF	0.35	1
2009	austriamicrosystems	S35B4M3	SiGe CMOS	0.35	4
2009	austriamicrosystems	H35B4D3	CMOS High Volt.	0.35	4
2009	STMicroelectronics	CMOS130	CMOS	130nm	4
2009	STMicroelectronics	BiCMOS9MW	SiGe BiCMOS	130nm	4
2009	STMicroelectronics	CMOS065	CMOS	65nm	6
2009	STMicroelectronics	CMOS065-SOI	CMOS SOI	65nm	1
2009	STMicroelectronics	CMOS090	CMOS	N/A	2
2009	MEMSCAP	PolyMUMPS	MEMS	N/A	4

2009	MEMSCAP	SOIMUMPS	MEMS	N/A	3
2009	MEMSCAP	MetalMUMPS	MEMS	N/A	1
2010	austriamicrosystems	C35B4C3/C35B4O1	CMOS	0.35	7
2010	austriamicrosystems	C35B4M3	CMOS RF	0.35	4
2010	austriamicrosystems	S35B4M3	SiGe BiCMOS	0.35	5
2010	austriamicrosystems	H35B4D3	High Voltage	0.35	4
2010	STMicroelectronics	CMOS130	CMOS130	130 nm	5
2010	STMicroelectronics	BiCMOS9MW	BiCMOS9MW	130 nm	6
2010	STMicroelectronics	CMOS065	CMOS065	65 nm	3
2010	STMicroelectronics	CMOS065-SOI	CMOS065-SOI	65 nm	1
2010	MEMSCAP	PolyMUMPS	MEMS	N/A	3
2010	MEMSCAP	SOIMUMPS	MEMS	N/A	3
2010	MEMSCAP	MetalMUMPS	MEMS	N/A	2
2011	austriamicrosystems	C35B4C3-C35B4O1	CMOS	0.35	9
2011	austriamicrosystems	C35B4M3	CMOS RF	0.35	2
2011	austriamicrosystems	S35B4M3	SiGe BiCMOS	0.35	4
2011	austriamicrosystems	H35B4D3	High Voltage	0.35	4
2011	austriamicrosystems	CUP	CMOS	0.6	1
2011	STMicroelectronics	CMOS130	CMOS130	130 nm	4
2011	STMicroelectronics	CMOS130-SOI	CMOS SOI	130 nm	2
2011	STMicroelectronics	BiCMOS9MW	SiGe BiCMOS	130nm	3
2011	STMicroelectronics	CMOS028LP	CMOS028	28 nm	1
2011	STMicroelectronics	CMOS040LP	CMOS040	40 nm	1
2011	STMicroelectronics	CMOS065	CMOS065	65 nm	3
2011	STMicroelectronics	CMOS065-SOI	CMOS SOI	65 nm	1
2011	TEZZARON	3D-IC FaStack	FaStack	130 nm	1
2012	AMS	C35B4C3-C35B4O1	CMOS	0.35	8
2012	AMS	C35B4M3	CMOS RF	0.35	2
2012	AMS	S35B4M3	SiGe BiCMOS	0.35	4
2012	AMS	H35B4D3	High Voltage	0.5	5
2012	AMS	CXQ	CMOS	0.8	1
2012	MEMSCAP	SOIMUMPS	MEMS	N/A	1
2012	STMicroelectronics	CMOS130	CMOS130	130 nm	4
2012	STMicroelectronics	HCMOS9-SOI	CMOS SOI	130 nm	1
2012	STMicroelectronics	BiCMOS9MW	SiGe BiCMOS	130 nm	4
2012	STMicroelectronics	CMOS028LP	CMOS028	28 nm	3
2012	STMicroelectronics	CMOS040LP	CMOS040	40 nm	2
2012	STMicroelectronics	CMOS065	CMOS065	65 nm	3
2013	ams	H18A6	High Voltage	0.18	1
2013	ams	C35B4C3-C35B4O1	CMOS	0.35	9
2013	ams	C35B4M3	CMOS RF	0.35	2
2013	ams	S35B4M3	SiGe BiCMOS	0.35	4
2013	ams	H35B4D3	High Voltage	0.35	3
2013	ams	CYE	CMOS	0.8	1
2013	TRIQUINT	pHEMT GaAs	pHEMT GaAs TOP15	150nm	1
2013	MEMSCAP	PolyMUMPS	MEMS	N/A	1
2013	MEMSCAP	SOIMUMPS	MEMS	N/A	2
2013	STMicroelectronics	CMOS130	CMOS130	130nm	4
2013	STMicroelectronics	HCMOS9-SOI	CMOS SOI	130nm	4
2013	STMicroelectronics	BiCMOS9MW	SiGe BiCMOS	130nm	4
2013	STMicroelectronics	HCMOS9A	HCMOS9A	130nm	1
2013	STMicroelectronics	CMOS028LP	CMOS028	28nm	2
2013	STMicroelectronics	CMOS28FDSOI	CMOS28FDSOI	28nm	3
2013	STMicroelectronics	BiCMOS55	BiCMOS	55nm	2
2013	STMicroelectronics	CMOS065	CMOS065	65nm	4
33 years	20 foundries	69 technologies	15 types		920 runs

Table 1 – History of CMP runs from 1981 to 2013

Foundry	Technology	Run	Inst.	Edu	Res	Ind	Total cir
ams	0.18 μ CMOS C35B4C3-C35B4O1	A18V14_2	1	0	1	0	1
ams	0.18 μ CMOS C35B4C3-C35B4O1	A18V14_4	3	0	2	1	3
ams	0.35 μ CMOS C35B4C3-C35B4O1	A35C14_1	6	1	5	1	7
ams	0.35 μ CMOS C35B4C3-C35B4O1	A35C14_2	5	2	3	1	6
ams	0.35 μ CMOS C35B4C3-C35B4O1	A35C14_3	5	1	4	1	6
ams	0.35 μ CMOS C35B4C3-C35B4O1	A35C14_4	10	3	7	3	13
ams	0.35 μ CMOS C35B4C3-C35B4O1	A35C14_5	10	3	11	1	15
ams	0.35 μ CMOS RF C35B4M3	A35R14_2	2	1	1	0	2
ams	0.35 μ CMOS RF C35B4M3	A35R14_3	1	0	2	0	2
ams	0.35 μ SiGe BiCMOS S35B4M3	A35S14_1	6	1	1	4	6

ams	0.35 μ SiGe BiCMOS S35B4M3	A35S14_4	2	0	3	1	4
ams	0.35 μ High Voltage H35B4D3	A35V14_1	2	1	1	0	2
ams	0.35 μ High Voltage H35B4D3	A35V14_2	2	0	1	1	2
ams	0.35 μ High Voltage H35B4D3	A35V14_3	3	1	1	1	3
ams	0.35 μ High Voltage H35B4D3	A35V14_4	1	0	1	0	1
MEMSCAP	PiezoMUMPS	M03Z14_3	1	0	1	0	1
STMicroelectronics	130 nm CMOS CMOS130	S13C14_1	5	0	6	3	9
STMicroelectronics	130 nm CMOS CMOS130	S13C14_2	4	5	0	0	5
STMicroelectronics	130 nm CMOS CMOS130	S13C14_3	2	0	1	2	3
STMicroelectronics	130 nm CMOS CMOS130	S13C14_4	6	0	5	2	7
STMicroelectronics	130 nm SOI HCMOS9-SOI	S13I14_2	2	0	2	0	2
STMicroelectronics	130 nm SiGe BiCMOS9MW	S13S14_1	3	0	5	3	8
STMicroelectronics	130 nm SiGe BiCMOS9MW	S13S14_2	1	0	0	1	1
STMicroelectronics	130 nm SiGe BiCMOS9MW	S13S14_4	2	0	1	3	4
STMicroelectronics	130 nm HCMOS9A HV-CMOS	S13V14_2	2	0	2	0	2
STMicroelectronics	28 nm CMOS CMOS28FDSOI	S28I14_2	3	0	3	0	3
STMicroelectronics	28 nm CMOS CMOS28FDSOI	S28I14_3	2	0	1	1	2
STMicroelectronics	28 nm CMOS CMOS28FDSOI	S28I14_4	2	0	1	1	2
STMicroelectronics	BICMOS55	S55S14_2	5	0	3	4	7
STMicroelectronics	BICMOS55	S55S14_3	1	0	2	0	2
STMicroelectronics	65 nm CMOS CMOS065	S65C14_1	18	3	22	2	27
STMicroelectronics	65 nm CMOS CMOS065	S65C14_2	13	2	14	0	16
TOTAL		32 runs		24	113	37	174

Table 2 – History of CMP runs in 2014

CMP runs total since 1981: 952 runs / 71 technologies

Nb total of circuits: 7,275

4,227 Research circuits / 1,678 Educational circuits / 1,370 Industrial circuits