



From layout to chips

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# Appendices of the annual report 2017

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## APPENDIX 1: Participation per Institution in 2017

			Number of circuits			
			E	R	I	TOTAL
Luceda Photonics	Denderrmonde	BELGIUM	0	0	1	1
Faculté Polytechnique de Mons	Mons	BELGIUM	0	1	0	1
Ghent U.	Gent	BELGIUM	0	7	0	7
KULeuven	Leuven	BELGIUM	0	1	0	1
U. Catholique de Louvain	Louvain la Neuve	BELGIUM	0	2	0	2
CMC Microsystems	Kingston	CANADA	0	9	0	9
U. of Toronto	Toronto	CANADA	0	2	0	2
U. of Macau	Macau	CHINA	0	9	0	9
Aalto U.	Espoo	FINLAND	0	3	0	3
NOPTEL OY	Oulu	FINLAND	0	0	1	1
U. of Oulu	Oulu	FINLAND	0	1	0	1
U. of Turku	Turku	FINLAND	0	1	0	1
APC- Astroparticule et Cosmologie	Paris	FRANCE	0	1	0	1
CEA-Saclay	Gif s/Yvette	FRANCE	0	0	2	2
Ecole de Mines de Nantes	Nantes	FRANCE	1	0	0	1
ENSEEIH	Toulouse	FRANCE	0	1	0	1
ENSICAEN	Caen	FRANCE	0	0	1	1
Ethertronics	Antibes	FRANCE	0	0	1	1
ICube	Strasbourg	FRANCE	0	2	0	2
ID-MOS	Gradignan	FRANCE	0	0	1	1
IEF	Orsay	FRANCE	0	1	0	1
IM2NP	Marseille	FRANCE	0	5	0	5
IMEP	Grenoble	FRANCE	0	2	0	2
IMS	Talence	FRANCE	0	8	0	8
INL - INSA Lyon	Villeurbanne	FRANCE	0	1	0	1
Inst. d'Electronique du Solide et des Systèmes	Strasbourg	FRANCE	0	1	0	1
Institut de Physique Nucleaire	Orsay	FRANCE	0	1	0	1
IPHC	Strasbourg	FRANCE	0	0	1	1
Lab. d'Architecture et d'Analyse des Systèmes (LAAS)	Toulouse	FRANCE	0	1	0	1
Lab. de Physique Corpusculaire	Aubiere	FRANCE	0	0	1	1
Lab. de Physique des Lasers	Villetaneuse	FRANCE	0	1	0	1
Laboratoire de Physique des Plasmas	Palaiseau	FRANCE	0	1	0	1
Laboratoire Hubert Curien	Saint Etienne	FRANCE	0	3	0	3
LETI	Grenoble	FRANCE	0	0	14	14
LIRMM	Montpellier	FRANCE	0	1	0	1
Nanoxplore	Bievres	FRANCE	0	0	1	1
Telecom-Paristech (ENST)	Paris	FRANCE	0	3	0	3
Thales Alenia Space	Toulouse	FRANCE	0	0	4	4
Thales Optronique SAS	Elancourt	FRANCE	0	0	1	1
Thales Systems Aeroportes	Elancourt	FRANCE	0	0	17	17
TIMA	Grenoble	FRANCE	0	2	0	2
IHP Microelectronics	Frankfurt	GERMANY	0	0	1	1
Micram Microelectronic gmbh	Bochum	GERMANY	0	0	2	2
Technische U. Dresden	Dresden	GERMANY	0	1	0	1
U. of Bremen	Bremen	GERMANY	0	3	0	3
Hong Kong U. of Science & Technology	Kowloon	HONG KONG	0	7	0	7
Indian Inst. of Technology	New Delhi	INDIA	0	5	0	5
Indian Inst. of Technology	Bombay	INDIA	0	1	0	1
Indian Inst. of Technology	Roorkee	INDIA	0	1	0	1
Tyndall National Institute	Cork	IRELAND	0	4	0	4



Bar Ilan U.	Ramat Gan	ISRAEL	0	1	0	1	
Politecnico di Milano	Milano	ITALY	0	3	0	3	
U. di Pisa	Pisa	ITALY	0	1	0	1	
Siliconsortium	Hyogo	JAPAN	0	0	9	9	
Dongguk U.	Seoul	KOREA	0	1	0	1	
kyunghee U.	Yongin-Si	KOREA	0	1	0	1	
Bruco Integrated circuits bv	Borne	NETHERLANDS	0	0	1	1	
krakow design consultants	kraków	POLAND	0	0	1	1	
National U. of Singapore	Singapore	SINGAPORE	0	1	0	1	
Instituto Microelectronica Sevilla (IMSE)	Sevilla	SPAIN	0	2	0	2	
Chalmers U. of Technology	Gothenburg	SWEDEN	0	1	0	1	
Linköping U. - ISY	Linköping	SWEDEN	0	3	0	3	
Lund U.	Lund	SWEDEN	0	6	0	6	
APTASIC	Boudry	SWITZERLAND	0	0	1	1	
ETH Zentrum IIS	Zurich	SWITZERLAND	0	1	0	1	
U. of Zurich	Zurich	SWITZERLAND	0	1	0	1	
ECOLE NATIONALE D INGENIEURS DE SFAX	Sfax	TUNISIA	0	1	0	1	
U. of Bath	Bath	U.K	0	1	0	1	
Cornell U.	Ithaca	USA	0	1	0	1	
Stanford U.	Stanford	USA	0	4	0	4	
Sygnal semiconductor llc	Tempe	USA	0	0	1	1	
U. of Akron	Akron	USA	0	1	0	1	
U. of California Berkeley	Berkeley	USA	0	6	0	6	
U. of California Irvine	Irvine	USA	0	1	0	1	
U. of California, San Diego	La Jolla	USA	0	1	0	1	
U. of Massachusetts	Amherst	USA	0	1	0	1	
U. of Utah	Salt Lake City	USA	0	3	0	3	
U. of Wisconsin	Madison	USA	0	1	0	1	
U.C San Diego	La Jolla	USA	0	1	0	1	
UCLA	Los Angeles	USA	0	1	0	1	
<b>TOTAL: 80 Institutions</b>			<b>22 Countries</b>	<b>1</b>	<b>138</b>	<b>62</b>	<b>201</b>



## APPENDIX 2: Institutions having submitted circuits for Industrial purpose in 2017

Luceda Photonics	Dendermonde	BELGIUM
NOPTEL OY	Oulu	FINLAND
CEA-Saclay	Gif s/Yvette	FRANCE
ENSICAEN	Caen	FRANCE
Ethertronics	Antibes	FRANCE
ID-MOS	Gradignan	FRANCE
IPHC	Strasbourg	FRANCE
Lab. de Physique Corpusculaire	Aubiere	FRANCE
LETI	Grenoble	FRANCE
Nanoxplore	Bievres	FRANCE
Thales Alenia Space	Toulouse	FRANCE
Thales Optronique SAS	Elancourt	FRANCE
Thales Systems Aeroportes	Elancourt	FRANCE
IHP Microelectronics	Frankfurt	GERMANY
Micram Microelectronic gmbh	Bochum	GERMANY
Siliconsortium	Hyogo	JAPAN
Bruco Integrated circuits bv	Borne	NETHERLANDS
krakow design consultants	kraków	POLAND
APTASIC	Boudry	SWITZERLAND
Sygnal semiconductor llc	Tempe	USA



## APPENDIX 3: Low volume production in 2017

TECHNOLOGY	INSTITUTION	COUNTRY	TOTAL
0.35µm SiGe BiCMOS S35D4M5	Siliconsortium	JAPAN	25
0.35µm SiGe BiCMOS S35D4M5	ENSEEIH	FRANCE	40
0.35µm SiGe BiCMOS S35D4M5	LETI	FRANCE	40
0.35 µ CMOS C35B4C3	Siliconsortium	JAPAN	40
130 nm SiGe BiCMOS9MW	Thales Alenia Space	FRANCE	50
55 nm BiCMOS055	Tyndall National Institute	IRELAND	50
55 nm BiCMOS055	Tyndall National Institute	IRELAND	50
0.18 µ CMOS High Voltage H18A6	Linköping U. - ISY	SWEDEN	70
0.35µm SiGe BiCMOS S35D4M5	Siliconsortium	JAPAN	75
55 nm BiCMOS055	Ghent U.	BELGIUM	75
0.35 µ CMOS C35B4C3	Siliconsortium	JAPAN	95
130nm H9SOI-FEM	Ethertronics	FRANCE	100
0.35 µ CMOS C35B4C3	ID-MOS	FRANCE	100
55 nm BiCMOS055	Micram Microelectronic GmbH	GERMANY	100
28 nm CMOS28FDSOI	Stanford U.	USA	150
130 nm SiGe BiCMOS9MW	Thales Systems Aeroportes	FRANCE	200
130 nm SiGe BiCMOS9MW	Thales Systems Aeroportes	FRANCE	200
55 nm BiCMOS055	Ghent U.	BELGIUM	200
55 nm BiCMOS055	Ghent U.	BELGIUM	200
55 nm BiCMOS055	Ghent U.	BELGIUM	200
55 nm BiCMOS055	Ghent U.	BELGIUM	200
55 nm BiCMOS055	Micram Microelectronic GmbH	GERMANY	200
65 nm CMOS065	IHP Microelectronics	GERMANY	250
0.35µm SiGe BiCMOS S35D4M5	IM2NP	FRANCE	400
0.35 µ CMOS C35B4C3	Krakow design consultants	POLAND	45 000
0.35 µ CMOS C35B4C3	NOPTEL OY	FINLAND	2 w
0.35µm SiGe BiCMOS S35D4M5	APTASIC	SWITZERLAND	6 w
0.35µm SiGe BiCMOS S35D4M5	Thales Optronique SAS	FRANCE	6 w
0.35µm SiGe BiCMOS S35D4M5	Thales Systems Aeroportes	FRANCE	6 w
0.35 µ CMOS C35B4C3	U. of Oulu	FINLAND	6 w
28 nm CMOS28FDSOI	LETI	FRANCE	8 w
130 nm SiGe BiCMOS9MW	Thales Systems Aeroportes	FRANCE	12 w
0.35 µ CMOS C35B4C3	CEA-Saclay	FRANCE	24 w
130 nm H9A1711 MADII HCMOS9A	LETI	FRANCE	25 w
130 nm SiGe BiCMOS9MW	Thales Systems Aeroportes	FRANCE	25 w



## APPENDIX 4: Institutions having submitted circuits 1981- 2017

INSTITUTION	TOWN	COUNTRY
Commissariat aux Energies Nouvelles	Algiers	ALGERIA
CIQUIBIC Fac. Cs. Quimicas	Cordoba	ARGENTINA
University of Adelaide	Adelaide	AUSTRALIA
U. of Sydney	Darlington	AUSTRALIA
Macquarie University	Sydney	AUSTRALIA
University of New South Wales	Sydney	AUSTRALIA
Telstra Research Laboratories	Victoria	AUSTRALIA
Victoria University	Victoria	AUSTRALIA
Austrian Mikro Systeme International GmbH (AMS)	Unterprenstatten	AUSTRIA
Thomas NEUROTH	Vienna	AUSTRIA
Luceda Photonics	Dendermonde	BELGIUM
Ghent University ELIS-CAS	Ghent	BELGIUM
EUOPRACTICE	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 Brasilia, LPCI, Dept Engen. Eletrica	Brasilia	BRAZIL
Centro de Componentes Semicondutores	Campinas	BRAZIL
Centro de Pesquisas Renato Archer (CenPRA)	Campinas	BRAZIL
CPqD Telebras	Campinas	BRAZIL
UNICAMP - FEE	Campinas	BRAZIL
Universidade Estadual de Campinas, DEE-FEG	Campinas	BRAZIL
Universidade Federal de Santa Catarina LCI	Florianopolis	BRAZIL
Universidade Federal de Santa Catarina LINSE/EEL/CTC	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
Polytechnic School of Federal Univ. Rio de Janeiro	Rio de Janeiro	BRAZIL
Universidade Federal do Rio de Janeiro - PADS	Rio de Janeiro	BRAZIL
Universidade Federal do Rio de Janeiro, Fundação COPPETEC	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
Ryerson University	Toronto	CANADA
University of Toronto	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
University of Zagreb	Zagreb	CROATIA
Czech Technical U.	Prague	CZECH REPUBLIC
Aalborg Univeristy, RISC group	Aalborg	DENMARK
Technical University of Denmark, Centre for Integrated Electronics	Lyngby	DENMARK
Technical University of Denmark, Department of Electromagnetics Systems	Lyngby	DENMARK
Technical University of Denmark, Department of Information Technology	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
Aalto University	Espoo	FINLAND
Helsinki Univ. of Technology - ECDL	Espoo	FINLAND
VTT INFORMATION TECHNOLOGY	Espoo	FINLAND



Ylinen Electronics	Kauniainen	FINLAND
Lappeenranta U. of Technology	Lappeenranta	FINLAND
NOPTEL OY	Oulu	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
Ethertronics	Antibes	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
Laboratoire de Physique Corpusculaire	Aubièrre	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
Nanoxplore	Bievres	FRANCE
CIM-PACA	Biot	FRANCE
ENST de Bretagne	Brest	FRANCE
Ecole Nationale des Télécommunications de Bretagne (ENTB)	Brest	FRANCE
Ecole Nationale d'Ingénieurs de Brest (ENIB)	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
ONERA	Chatillon	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
Centre d'Etudes Nucléaires de Bordeaux-Gradignan (CENBG)	Gradignan	FRANCE
ID-MOS	Gradignan	FRANCE
SILWAY	Gradignan	FRANCE
G2ELab	Grenoble	FRANCE
Institut de Microélectronique, Electromagnétisme et Photonique (IMEP)	Grenoble	FRANCE
Iroc	Grenoble	FRANCE
Laboratoire de Physique Subatomique et de cosmologie (LPSC)	Grenoble	FRANCE
Laboratoire SPINTEC CEA/CNRS	Grenoble	FRANCE
Phelma G-INP	Grenoble	FRANCE
CNRS – CRG – D2AM	Grenoble	FRANCE
Conception de Systèmes Intégrés (CSI)	Grenoble	FRANCE
DEA de Microélectronique	Grenoble	FRANCE
Ecole Nat. Sup. d'Electron. et de Radio Electricité	Grenoble	FRANCE
Ecole Nat. Sup. d'Ingén. Electriciens	Grenoble	FRANCE
Ecole Nat. Sup. d'Inf. et de Mathém. Appliqués de Grenoble (ENSIMAG)	Grenoble	FRANCE
European Synchrotron Radiation Facility (ESRF – SYNCHROTRON)	Grenoble	FRANCE
Institut des Sciences Nucléaires	Grenoble	FRANCE
Institut Universitaire de Technologie	Grenoble	FRANCE
Laboratoire de Physique des Composants à Semiconducteurs (LPCS)	Grenoble	FRANCE
Laboratoire des Images et Signaux (LIS ex. LTIRF)	Grenoble	FRANCE
LETI / CEA	Grenoble	FRANCE
Techn. de l'Inform. et de la Microélec Architecture d'Ordinateurs (TIMA)	Grenoble	FRANCE
Thomson-CSF Semiconducteurs Spécifiques	Grenoble	FRANCE
Unité de Génie Matériel (Laboratoire Génie Informatique)	Grenoble	FRANCE
Université Joseph Fourier - ISTG	Grenoble	FRANCE
Schneider Electric	L'Isle d'Espagnac	FRANCE
imXPAD	La Ciotat	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
Capteur Microélectr. et Microoptique (C2M), Faculté des Sciences de Limoges	Limoges	FRANCE
Institut de Recherche en Communications Optiques et Microondes (IRCOM)	Limoges	FRANCE
Université de Limoges, DEA	Limoges	FRANCE
Institut de Physique Nucléaire de Lyon	Lyon	FRANCE
Ecole Supérieure de Chimie Physique et Electronique (ESCPE - ICPI)	Lyon	FRANCE
Laboratoire Image, Signal et Acoustique (LISA)	Lyon	FRANCE
IM2NP	Marseille	FRANCE
L2MP Polytech	Marseille	FRANCE
Centre de Physique des Particules de Marseille (CPPM)	Marseille	FRANCE
Ecole Supérieure Ingénieurs de Marseille (ESIM - ISMEA)	Marseille	FRANCE
Advanced Electronic Design (AED)	Massy	FRANCE
SAPHYMO	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
Lab. d'Inform., de Robotique et de Microélectr. de Montpellier (LIRMM)	Montpellier	FRANCE
Université de Montpellier II - ISIM	Montpellier	FRANCE
Station de Radioastronomie de Nancy, CNRS	Nançay	FRANCE
SCHNEIDER Electric	Nanterre	FRANCE
Ecole de Mines de Nantes	Nantes	FRANCE
SUBATECH	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 l'Accélérateur Linéaire	Orsay	FRANCE
Laboratoire de Recherche en Informatique	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, OMEGA	Palaiseau	FRANCE
AstroParticule et Cosmologie (APC)	Paris	FRANCE
Ecole Nationale Supérieure de Technologies Avancées (ENSTA)	Paris	FRANCE
Lab. de Physique des Plasmas	Paris	FRANCE
Lab. d'Electronique et Electromagnétisme L2E	Paris	FRANCE
Biospace Instruments	Paris	FRANCE
Centre de Microélectronique de Paris Ile de France (CEMIP)	Paris	FRANCE
Conservatoire National des Arts et Métiers (CNAM)	Paris	FRANCE
DEA de Microélectronique (PARIS 7)	Paris	FRANCE
Ecole Normale Supérieure	Paris	FRANCE
Institut de Programmation	Paris	FRANCE
Institut Supérieur d'Electronique de Paris (ISEP)	Paris	FRANCE
Labo. de Méthodes et Archi. de Syst. Informatiques (LAMSI)	Paris	FRANCE
Laboratoire d'Electronique Analogique et Micro-ondes (LEAM)	Paris	FRANCE
Laboratoire de Physique Nucléaire et de Hautes Energies (LPNHE)	Paris	FRANCE
Laboratoire des Instruments et Systèmes (LIS)	Paris	FRANCE
Laboratoire des Instruments et Systèmes d'Ile de France (LISIF)	Paris	FRANCE
Telecom-Paristech (ENST)	Paris	FRANCE
Université Pierre & Marie Curie, Dept d'Electronique	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
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
ICube	Strasbourg	FRANCE
Institut d'Electronique du Solide et des Systèmes	Strasbourg	FRANCE
Institut Pluridisciplinaire Hubert Curien (IPHC)	Strasbourg	FRANCE
Université Louis Pasteur	Strasbourg	FRANCE
Centre Commun d'Enseignement Sup. de Microélectr. Avancée (CCESMAA)	Talence	FRANCE
Ec. Nat. Sup. d'Electronique, Infor. et de Radiocomm; de Bordeaux (ENSIERB)	Talence	FRANCE
Université de Bordeaux I - DESS	Talence	FRANCE
Université de Bordeaux I - Laboratoire de Microélectronique (IMS)	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
THALES Alenia Space	Toulouse	FRANCE
Atelier Interuniversitaire de MicroElectronique (AIME)	Toulouse	FRANCE
Centre d'Etude Spatiale des Rayonnements (CESR)	Toulouse	FRANCE
Centre National d'Etudes Spatiales (CNES)	Toulouse	FRANCE
Ec. Nat. Sup. d'Electronique d'Electrotech. d'Inf. et d'Hydraulique (ENSEEIH)	Toulouse	FRANCE
Ecole Nationale d'Aviation Civile (ENAC)	Toulouse	FRANCE
Ecole Supérieure de l'Aéronautique (Sup'Aéro)	Toulouse	FRANCE
Institut National Sciences Appliquées (INSA)	Toulouse	FRANCE
Institut National Sciences Appliquées (INSA) Dept Génie Electrique (DGE)	Toulouse	FRANCE
Institut Universitaire de Technologie, Dept GEII	Toulouse	FRANCE
Laboratoires d'Autom. et d'Analyse des Systèmes (LAAS)	Toulouse	FRANCE
SIEMENS Automotive	Toulouse	FRANCE
Université Paul Sabatier, DESS	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
Laboratoire d'Informatique Fondamentale de Lille	Villeneuve d'Ascq	FRANCE
Université des Sciences et Techniques de Lille	Villeneuve d'Ascq	FRANCE
Laboratoire de Physique des Lasers, Institut Galilée	Villetaneuse	FRANCE
Inst. des Nanotechnologies	Villeurbanne	FRANCE
CEGELY	Villeurbanne	FRANCE
Institut de Physique Nucléaire	Villeurbanne	FRANCE
Institut National Sciences Appliquées (INSA)	Villeurbanne	FRANCE
Laboratoire d'Electronique de Nanotechnologies et Capteurs (LENAC)	Villeurbanne	FRANCE
Laboratoire Image, Signal et Acoustique (LISA)	Villeurbanne	FRANCE
Rheinisch Westfälische Technische Hochschule (RWTH)	Aachen	GERMANY
Fachhochschule Augsburg	Augsburg	GERMANY
University of Bielefeld	Bielefeld	GERMANY
Micram Microelectronic GmbH	Bochum	GERMANY
Ruhr Universität Bochum	Bochum	GERMANY
EUROCHIP	Bonn	GERMANY
U. of Bremen	Bremen	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
IHP microelectronics	Frankfurt	GERMANY
Universitaet Heidelberg, Gesell. Schwerion. mbH	Heidelberg	GERMANY
Universität Heidelberg, IHEP	Heidelberg	GERMANY
NAOMI TECHNOLOGIES AG	Mainz	GERMANY
Fraunhofer Institute EMFT	Munchen	GERMANY
University of Applied Sciences	Munchen	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	Schwarzenbruck	GERMANY
Alcatel-Lucent Bell labs	Stuttgart	GERMANY
University of Stuttgart - INT	Stuttgart	GERMANY
University of Stuttgart, Institute of Electrical & Optical Comm. Eng.	Stuttgart	GERMANY
Hahn-Schickard-Gesellschaft - IMIT	Villingen-Schwenningen	GERMANY
University of Wuppertal	Wuppertal	GERMANY
AMBIT Ltd	Athens	GREECE
National Technical University of Athens	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 - El 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 Univ.of Hong Kong - CSE	Shatin	HONG KONG
The Chinese University of Hong Kong - Dept El. Eng.	Shatin	HONG KONG
Vocational training Council - EDT Training Center	Wanchai	HONG KONG
Micred Ltd	Budapest	HUNGARY
Technical University of Budapest	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
Indian Institute of Technology	New Delhi	INDIA
Jaypee Inst. of Information Technology	Noida	INDIA
Indian Inst. of Technology	Roorkee	INDIA
Laboratorium Elecktronika	Bandung	INDONESIA
Gunadarma U.	Jakarta	INDONESIA
Sharif University of Technology - Elect. Eng. Dept	Tehran	IRAN
Sharif University of Technology - Electronic Center	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
Bar Ilan Univ.	Ramat Gan	ISRAEL
Tel Aviv Univ.	Tel Aviv	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 Nazionale di Fisica Nucleare (INFN)	Bari	ITALY
Politecnico di Bari, Dipto de Elettrotecnica & Elettronica	Bari	ITALY
Università di Bergamo	Dalmine	ITALY
Osservatorio Astrofisico di Arcetri	Firenze	ITALY
Universita degli Studi di Firenze, Dipto d'Elettronica & Telecomunicazioni	Firenze	ITALY
Università di Firenze, Dip. Ing. Elettronica Microelectronica	Firenze	ITALY
University of Firenze, Dept Elect. & Telec.	Firenze	ITALY
Università Dell'Aquila, Dip. di Ing. Elettrica	L'Aquila	ITALY
Institute for Microelectronics & Microsystems	Lecce	ITALY
University of Salento	Lecce	ITALY
Newronika s.r.l	Milano	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
Istituto Nazionale di Fisica Nucleare (INFN), Dipto di Scienze Fisiche	Napoli	ITALY
University of Naples - Dept of Electronics	Napoli	ITALY
Università 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
Università di Pisa, Dipto di Fisica	Pisa	ITALY
Università di Pisa, Dipto di Ingegneria dell'Informazione	Pisa	ITALY
Fondazione Bruno Kessler	Povo (Trento)	ITALY
Istituto Trentino di Cultura	Povo (Trento)	ITALY
Università Mediterranea di Reggio Calabria	Reggio Calabria	ITALY
University of Calabria, Microelectronic Design Lab.	Rende	ITALY
INTERLAB S.r.l.	Roma	ITALY
Istituto nazionale di Fisica Nucleare (INFN), sezione di Roma	Roma	ITALY
Università di Roma Tor Vergata, Dip. de Ing. Elettronica	Roma	ITALY
Università La Sapienza, Dipto di Ing. Elettronica	Roma	ITALY
Istituto Nazionale 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	Fukushima	JAPAN
Shizuoka University, Research Institute of Electronics	Hamamatsu	JAPAN
Hiroshima University	Hiroshima	JAPAN
SILICONSORTIUM Ltd	Hyogo	JAPAN
Matsushita Electric Industrial Co. Ltd	Kawasaki	JAPAN
Meiji Univ.	Kawasaki	JAPAN



ASTEM RI	Kyoto	JAPAN
Kyoto University, Dept of Elec. and Comm.	Kyoto	JAPAN
Micro Signal Co. Ltd	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 - Koyanagi Lab	Sendai	JAPAN
Tohoku University, DCMS	Sendai	JAPAN
Tohoku University, Graduate School of Inf. Sciences	Sendai	JAPAN
Tohoku University, Kameyama Laboratory	Sendai	JAPAN
Tohoku University, Research Institute of Electrical Comm.	Sendai	JAPAN
Maruwa Sokki Co LTD	Tokyo	JAPAN
OKI Electric Industry Co, Ltd	Tokyo	JAPAN
Tokyo University of Agriculture & Technology, ISHII Laboratory	Tokyo	JAPAN
Tokyo University of Science, DEE	Tokyo	JAPAN
Tokyo University of Science, Dept of Electrical Engineering	Tokyo	JAPAN
University of Tokyo, Dept of Math. Eng. & Informatic Physics	Tokyo	JAPAN
University of Tokyo, Ishikawa-Hashimoto Lab.	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
kyunghee U.	Yongin-Si	KOREA
Dongguk U.	Seoul	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
ITESM, Depto de Ingenieria Electronica y Computacional	Monterrey	MEXICO
Instituto Nacional de Astrofisica, Optica y Electronica (INAOE)	Puebla	MEXICO
Bruco Integrated circuits bv	Borne	NETHERLANDS
ISSIS b.v.	Budelshoort	NETHERLANDS
Catena Holding B.V.	Delft	NETHERLANDS
Delft University of Technology, ITS/OED	Delft	NETHERLANDS
Technical University of Delft	Delft	NETHERLANDS
Philips Research	Eindhoven	NETHERLANDS
AEMICS	Enschede	NETHERLANDS
ALMA Electronic System Design	Enschede	NETHERLANDS
Hogeschool Enschede	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	Flatsen	NORWAY
Novelda AS	Kviteseid	NORWAY
University of Oslo, Dept of Informatics	Oslo	NORWAY
Norwegian Univ. of Science and Technology, Dept of Electronics & Telecomm.	Trondheim	NORWAY
SINTEF DELAB	Trondheim	NORWAY
University of Trondheim, Dept of Physical Electronics	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
Krakow Design Consultants	Krakow	POLAND
University of Mining and Metallurgy (AGH), Inst. of Electronics	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
Instituto de Telecomunicações	Aveiro	PORTUGAL
University of Aveiro, GCO-DET	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	Moscow	RUSSIA
National Research Univ. of Electronic Techno (MIET)	Moscow	RUSSIA



Samsung Electronics	Moscow	RUSSIA
Granch Ltd	Novosibirsk	RUSSIA
SIBELL Research Center	Novosibirsk	RUSSIA
University of Petroleum and Minerals	Dhahran	SAUDI ARABIA
Mihajlo Pupin Institute	Beograd	SERBIA
University of Nis, Elektronski Fakultet	Nis	SERBIA
Agilis Communication Technologies Pte Ltd	Singapore	SINGAPORE
Centre Wireless Communication	Singapore	SINGAPORE
DSO Nationals Labs.	Singapore	SINGAPORE
Insitute for Infocomms Research	Singapore	SINGAPORE
MEDs Technologies Pte Ltd	Singapore	SINGAPORE
Nanyang Technological University EEE	Singapore	SINGAPORE
National University of Singapore, DECI	Singapore	SINGAPORE
National University of Singapore, DEE	Singapore	SINGAPORE
National University of Singapore, DME	Singapore	SINGAPORE
National University of Singapore, ECE	Singapore	SINGAPORE
Singapore Polytechnic, School of Electrical & Electronic Engineering	Singapore	SINGAPORE
Temasek Laboratories at Nanyang Technological University	Singapore	SINGAPORE
University of Pretoria	Pretoria	SOUTH AFRICA
Universitat de Barcelona, Dept d'Estructura i Constituents de la Matèria (ECM)	Barcelona	SPAIN
Universitat of Barcelona, Dept Electronica	Barcelona	SPAIN
Universidad Autonoma de Barcelona	Barcelona	SPAIN
Universidad Politecnica de Catalunya	Barcelona	SPAIN
ETSI Telecomunicacion	Las Palmas Gran Canaria	SPAIN
Universidad Las Palmas de Gran Canaria	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
U. of Zaragoza	Zaragoza	SPAIN
Chalmers University - Computer Engineering	Goteborg	SWEDEN
Chalmers University - VLSI Research Group	Goteborg	SWEDEN
Chalmers University, Kungl Tekniska Hogskotan	Goteborg	SWEDEN
Chalmers University, Microwave Eletronics Lab.	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 / DMT-IMT	Lausanne	SWITZERLAND
Ecole Polytechnique Fédérale de Lausanne / MANTRA	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) - IFQ	Zurich	SWITZERLAND
Eidgenoessische Technische Hochschule (ETH) - IIS	Zurich	SWITZERLAND
Eidgenoessische Technische Hochschule (ETH) - IQE	Zurich	SWITZERLAND
Eidgenoessische Technische Hochschule (ETH) - ISL	Zurich	SWITZERLAND
Eidgenoessische Technische Hochschule (ETH) - SIPL	Zurich	SWITZERLAND
Wireless Comm. Laboratory, National Chang-Chen University	Chiayi	TAIWAN
National Central University, NCU-SS Laboratory	Chung-Li	TAIWAN
Airwave Technology Inc.	Hsinchu	TAIWAN
Inst. Phys. Academia Sinica	Hsinchu	TAIWAN
National Chiao-Tung Univ., Institute of Electronics	Hsinchu	TAIWAN
National Science Council – Precision Instrument Development Center	Hsinchu	TAIWAN



National Taiwan Univ. National Graduate Inst. of Communication Engineering	Taipei	TAIWAN
National Taiwan Univ., Institute of Electrical Engineering	Taipei	TAIWAN
National Taiwan Univ., MBE Laboratory	Taipei	TAIWAN
National Taiwan Univ., MEMS Laboratory	Taipei	TAIWAN
Tatung Institute of Technology, Dept of Electrical Engineering	Taipei	TAIWAN
NECTEC	Bangkok	THAILAND
Ecole Nationale d'Ingénieurs de Sfax	Sfax	TUNISIA
Ecole Nat. des Sciences de l'Informatique	Tunis	TUNISIA
Bogazici University, BETA Laboratory	Ankara	TURKEY
Middle East Tech. University	Ankara	TURKEY
Mikroelektronik ArGe Tas ve Tic Ltd Sti	Ankara	TURKEY
Tubitak Bilten	Ankara	TURKEY
Dogus University	Istanbul	TURKEY
Istanbul Technical University - ETA Design Center	Istanbul	TURKEY
Mikroelektronik Arastirma Gelistirme Tasarim	Istanbul	TURKEY
University of Bath, Dept of Electronic and Electrical Engineering	Bath	U.K
Bournemouth Polytechnic	Bournemouth	U.K
Cambridge University, Engineering Department	Cambridge	U.K
Midas Green Ltd	Cambridge	U.K
Microcosm Communications Ltd	Chichester	U.K
University of Warwick	Coventry	U.K
Silicon Contact Ltd.	Croydon	U.K
The University of Birmingham, Electrical & Electronic Eng. School	Edgbaston	U.K
EDA Solutions Ltd	Fareham	U.K
British Telecom Labs.	Ipswich	U.K
University of Leeds, School of Electronic & Electrical Engineering	Leeds	U.K
King's College London, Dept of Electronic & Electrical Engineering	London	U.K
Middlesex University	London	U.K
University College London	London	U.K
University of London VLSI Consortium	London	U.K
KJ Analogue Consulting	Malmesbury	U.K
University of Manchester	Manchester	U.K
University of Newcastle Upon Tyne	Newcastle	U.K
University of Nottingham	Nottingham	U.K
Zetex plc.	Oldham	U.K
ACAPELLA	Southampton	U.K
University of Southampton, Dept of Electronics & Computer Science	Southampton	U.K
Staffordshire University, School of Engineering and Advanced Technology	Stafford	U.K
University of York	York	U.K
Al Rezwan Electronics Trading Est.	Dubai	UAE
Facultad de Ingenieria, Instituto de Ingenieria Electrica	Montevideo	URUGUAY
Univ. De la Republica Uruguay, Inst. De Ingeniera Electrica	Montevideo	URUGUAY
Newlans Incs.	Acton	USA
The Univ. of Akron foundation	Akron	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
U. of California, Irvine	Irvine	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
U. of Wisconsin	Madison	USA
MOSIS	Marina del Rey	USA



Stanford Linear Accelerator Center (SLAC)	Menlo Park	USA
SUN Microsystems	Menlo Park	USA
Florida International U.	Miami	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
U. of Utah	Salt Lake City	USA
University of Washington, Dept of Electrical Engineering	Seattle	USA
Stanford University	Stanford	USA
SIBeam, Inc	Sunnyvale	USA
U. of South Florida	Tampa	USA
Arizona State University	Tempe	USA
Sygnal Semiconductor LLC	Tempe	USA
Rensselaer Polytechnic Inst.	Troy	USA
Radiation Monitoring devices	Watertown	USA

**603 Institutions used CMP from 1981**  
**11 new users in 2017**



## APPENDIX 5: History of CMP projects 1981-2017

The following tables summarize the history of CMP projects since 1981

Year	Foundry	Technology NAME	Technology TYPE	Gate ( $\mu$ )	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 TQP15	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
2014	ams	H18A6	High Voltage	0.18	2
2014	ams	C35B4C3-C35B4O1	CMOS	0.35	5
2014	ams	C35B4M3	CMOS RF	0.35	2
2014	ams	S35B4M3	SiGe BiCMOS	0.35	2
2014	ams	H35B4D3	High Voltage	0.35	4
2014	MEMSCAP	PiezoMUMPS	MEMS	N/A	1
2014	STMicroelectronics	CMOS130	CMOS130	130nm	4
2014	STMicroelectronics	HCMOS9-SOI	CMOS SOI	130nm	1
2014	STMicroelectronics	BiCMOS9MW	SiGe BiCMOS	130nm	3
2014	STMicroelectronics	HCMOS9A HV-CMOS	HCMOS9A	130nm	1
2014	STMicroelectronics	CMOS28FDSOI	CMOS28FDSOI	28nm	3
2014	STMicroelectronics	BiCMOS55	BiCMOS	55nm	2
2014	STMicroelectronics	CMOS065	CMOS065	65nm	2
2015	ams	H18A6	High Voltage	0.18	3
2015	ams	CA18A6	CMOS	0.35	3
2015	ams	C35B4C3	CMOS	0.35	4
2015	ams	C35B4O1	CMOS-Opto	0.35	2
2015	ams	C35B4M3	CMOS RF	0.35	2
2015	ams	S35B4M3	SiGe BiCMOS	0.35	4
2015	ams	H35B4D3	High Voltage	0.35	3
2015	MEMSCAP	PiezoMUMPS	PiezoMUMPS	N/A	1
2015	STMicroelectronics	CMOS130	HCMOS9GP	130nm	3
2015	STMicroelectronics	HCMOS9-SOI	H9SOI-FEM	130nm	2
2015	STMicroelectronics	BiCMOS9MW	SiGe BiCMOS9MW	130nm	3
2015	STMicroelectronics	HCMOS9A HV-CMOS	HCMOS9A	130nm	1
2015	STMicroelectronics	CMOS28FDSOI	CMOS28FDSOI	28nm	3
2015	STMicroelectronics	BiCMOS55	BiCMOS055	55nm	2
2015	STMicroelectronics	CMOS065	CMOS065	65nm	3
2016	IBM	T92B			1
2016	ams	H18A6	High Voltage	0.18	4
2016	ams	CA18A6	CMOS	0.18	1
2016	ams	C35B4C3	CMOS	0.35	4
2016	ams	C35B4O1	CMOS-Opto	0.35	1
2016	ams	C35B4M3	CMOS RF	0.35	3
2016	ams	S35B4M3	SiGe BiCMOS	0.35	1
2016	ams	H35B4D3	High Voltage	0.35	3
2016	STMicroelectronics	CMOS130	HCMOS9GP	130nm	3
2016	STMicroelectronics	HCMOS9-SOI	H9SOI-FEM	130nm	3
2016	STMicroelectronics	BiCMOS9MW	SiGe BiCMOS9MW	130nm	3
2016	STMicroelectronics	CMOS28FDSOI	CMOS28FDSOI	28nm	3
2016	STMicroelectronics	BiCMOS55	BiCMOS055	55nm	2
2016	STMicroelectronics	CMOS065	CMOS065	65nm	2
<b>36 years</b>	<b>21 foundries</b>	<b>71 technologies</b>	<b>11 types</b>		<b>1022 runs</b>

**Table 1 – History of CMP runs from 1981 to 2016**



Foundry	Technology	Run	Inst.	Edu	Res	Ind	Total cir
IRT Nanoelec/LETI-CEA	Si310-PHMP2M	L13F17_2	1	0	0	1	1
ams	0.18 μ CMOS High Voltage H18A6	A18V17_1	3	0	3	0	3
ams	0.18 μ CMOS High Voltage H18A6	A18V17_2	3	1	2	0	3
ams	0.18 μ CMOS High Voltage H18A6	A18V17_3	2	0	2	0	2
ams	0.18 μ CMOS High Voltage H18A6	A18V17_4	1	0	0	1	1
ams	0.35 μ CMOS C35B4C3	A35C16_2	1	0	0	1	1
ams	0.35 μ CMOS C35B4C3	A35C17_1	4	0	3	1	4
ams	0.35 μ CMOS C35B4C3	A35C17_2	6	0	3	3	6
ams	0.35 μ CMOS C35B4C4	A35C17_3	4	0	3	2	5
ams	0.35 μ CMOS C35B4C5	A35C17_4	3	0	2	1	3
ams	0.35 μ CMOS C35B4C6	A35C17_5	3	0	2	2	4
ams	0.35 μ CMOS C35B4C7	A35C17_6	2	0	2	0	2
ams	0.35 μ CMOS C35B4C8	SA35C17_1	1	0	0	1	1
ams	0.35 μ CMOS C35B4C9	SA35C17_2	1	0	0	1	1
ams	0.35 μ CMOS C35B4C10	SA35C17_3	1	0	1	0	1
ams	0.35 μ MEMS Bulk	A35C17_4-MEMS	2	0	2	0	2
ams	0.35μm CMOS-Opto C35B4O1	A35O17_1	2	0	2	1	3
ams	0.35μm CMOS-Opto C35B4O1	A35O17_3	2	0	2	0	2
ams	0.35μm CMOS-Opto C35B4O1	A35O17_4	3	0	2	1	3
ams	0.35μm CMOS-Opto C35B4O1	A35O17_6	1	0	2	0	2
ams	0.35μm CMOS RF C35B4M3	A35R17_1	3	0	3	0	3
ams	0.35μm CMOS RF C35B4M3	A35S17_3	2	0	2	0	2
ams	0.35μm CMOS RF C35B4M3	A35R17_3	2	0	2	0	2
ams	0.35μm SiGe BiCMOS S35D4M5	A35S17_4	1	0	1	0	1
ams	0.35μm SiGe BiCMOS S35D4M5	SA35S17_1	1	0	0	1	1
ams	0.35μ CMOS High Voltage H35B4D3	A35V17_1	3	0	2	1	3
ams	0.35μ CMOS High Voltage H35B4D3	A35V17_2	1	0	1	0	1
ams	0.35μ CMOS High Voltage H35B4D3	A35V17_3	2	0	2	0	2
ams	0.35μ CMOS High Voltage H35B4D3	A35V17_4	3	0	2	1	3
ams	0.35μ CMOS High Voltage H35B4D3	SA35V12_2	3	0	0	3	3
STMicroelectronics	130nm HCMOS9GP	S13C17_3	1	0	1	0	1
STMicroelectronics	130nm H9SOI-FEM	S13I17_1	1	0	0	2	2
STMicroelectronics	130nm H9SOI-FEM	S13I17_3	3	0	2	1	3
STMicroelectronics	130 nm SiGe BiCMOS9MW	S13S15_4	1	0	0	1	1
STMicroelectronics	130 nm SiGe BiCMOS9MW	S13S17_1	5	0	6	2	8
STMicroelectronics	130 nm SiGe BiCMOS9MW	S13S17_2	4	0	2	6	8
STMicroelectronics	130 nm SiGe BiCMOS9MW	S13S17_3	1	0	1	0	1
STMicroelectronics	130 nm SiGe BiCMOS9MW	SS13S17_1	1	0	0	11	11
STMicroelectronics	130 nm H9A1711 MADII HCMOS9A	SS13V17_1	8	0	9	3	12
STMicroelectronics	28 nm CMOS28FDSOI	S28I17_1	7	0	6	4	10
STMicroelectronics	28 nm CMOS28FDSOI	S28I17_2	13	0	15	3	18
STMicroelectronics	28 nm CMOS28FDSOI	S28I17_4	5	0	6	1	7
STMicroelectronics	55 nm BiCMOS055	S55S17_1	2	0	3	0	3
STMicroelectronics	55 nm BiCMOS055	S55S17_2	4	0	5	2	7
STMicroelectronics	55 nm BiCMOS055	S55S17_3	3	0	7	0	7
STMicroelectronics	65 nm CMOS065	S65C16_2	1	0	1	0	1
STMicroelectronics	65 nm CMOS065	S65C17_1	8	0	13	2	15
STMicroelectronics	65 nm CMOS065	S65C17_3	13	0	13	2	15
<b>48 runs</b>			<b>1</b>	<b>138</b>	<b>62</b>	<b>201</b>	

**Table 2 – History of CMP runs in 2017**

**Total since 1981: 1,070 runs / 72 technologies**

**Total number of circuits from 1981: 7,943**

➔ **4,665 Research circuits**

➔ **1,722 Educational circuits**

➔ **1,556 Industrial circuits**



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