



APPENDICES

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APPENDIX 1: Participation per Institution in 2018

			Number of circuits			
			E	R	I	Total
Ghent U.	Gent	BELGIUM	0	1	0	1
IMEC	Leuven	BELGIUM	0	2	0	2
U. Catholique de Louvain	Louvain-la-Neuve	BELGIUM	0	2	0	2
CMC Microsystems	Kingston	CANADA	0	5	0	5
U. of Toronto	Toronto	CANADA	0	1	0	1
Southern U. of Science and Technology	Shenzen	CHINA	0	1	0	1
U. of Macau	Macao	CHINA	0	2	0	2
Aalto U.	Espoo	FINLAND	0	2	0	2
NOPTel	Oulu	FINLAND	0	0	1	1
APC Astroparticule et Cosmologie	Paris	FRANCE	0	2	0	2
C2N U. Paris Sud	Orsay	FRANCE	0	1	0	1
CEA Saclay	Gif S/Yvette	FRANCE	0	0	6	6
Cegitek	Aubagne	FRANCE	0	0	1	1
G2ELab	Grenoble	FRANCE	0	6	0	6
ICube	Strasbourg	FRANCE	0	2	0	2
IMS	Talence	FRANCE	0	4	0	4
IMT Atlantique - SUBATECH	Nantes	FRANCE	0	1	0	1
INL - INSA Lyon	Villeurbanne	FRANCE	0	1	0	1
IPHC	strasbourg	FRANCE	0	1	0	1
LAAS	Toulouse	FRANCE	0	4	0	4
Lab. De Physique des Lasers	Villetaneuse	FRANCE	0	2	0	2
Lab. RFIC	Grenoble	FRANCE	0	1	0	1
Lab. TESA (Télécom. Spatiales et Aéronautique)	Toulouse	FRANCE	0	1	0	1
Laboratoire de Physique des Plasmas	Palaiseau	FRANCE	0	3	0	3
LETI/CEA	Grenoble	FRANCE	0	0	5	5
LIP6 - U. Pierre & Marie Curie	Paris	FRANCE	0	1	0	1
LIRMM	Montpellier	FRANCE	0	1	0	1
LPC / ENSICAEN	Caen	FRANCE	0	0	1	1
NIPSON	Belfort	FRANCE	0	0	1	1
OMEGA	Orsay	FRANCE	0	0	3	3
PHELMA	Grenoble	FRANCE	1	0	0	1
Seamless Waves	Paris	FRANCE	0	0	1	1
Somos Semiconductor SAS	Marly le Roi	FRANCE	0	0	5	5
THALES Alenia Space	Toulouse	FRANCE	0	0	2	2
THALES Systems Aeroportes	Elancourt	FRANCE	0	0	25	25
TIMA	Grenoble	FRANCE	0	3	0	3
WEEROC	Palaiseau	FRANCE	0	0	1	1
Xdigit	Moirans	FRANCE	0	0	2	2
XLIM	Limoges	FRANCE	0	1	0	1
Micram Microelectronic GmbH	Bochum	GERMANY	0	0	2	2
Saarland U.	Saarbrücken	GERMANY	0	3	0	3
U. of Bremen Inst.of Electrodynamics and Microel.	Bremen	GERMANY	0	1	0	1
U. of Stuttgart	Stuttgart	GERMANY	0	1	0	1
WEASIC Microelectronics SA	Maroussi	GREECE	0	0	3	3
Chinese U. of Hong Kong	Shatin N.T.	HONG KONG	0	2	0	2
Hong Kong U. of Science & Technology	Kowloon	HONG KONG	2	0	0	2
Indian Inst. of Technology	New Delhi	INDIA	0	1	0	1
Indian Inst. of Technology	Mumbai, Maharashtra	INDIA	1	0	0	1
Tyndall National Institute	Cork	IRELAND	0	1	0	1
Newronika	Milano	ITALY	0	2	0	2
Politecnico di Milano	Milano	ITALY	0	1	0	1
Universita di Roma "La Sapienza"	Roma	ITALY	0	1	0	1

Siliconsortium Ltd	Hyogo	JAPAN	0	0	3	3
Norwegian U. of Science and Technology	Trondheim	NORWAY	0	2	0	2
U. of the Philippines, Diliman	Quezon City	PHILIPPINES	1	0	0	1
Krakow Design Consultants	Krakow	POLAND	0	0	1	1
National Research U. of Electronic Technology	Moscow	RUSSIA	0	4	0	4
Nanyang Technological U.	Singapore	SINGAPORE	0	3	0	3
National U. of Singapore	Singapore	SINGAPORE	0	2	0	2
Instituto Microelectronica Sevilla (IMSE)	Sevilla	SPAIN	0	1	0	1
U. of Seville - Escuela Superior de Ingenieros	Sevilla	SPAIN	0	1	0	1
U. Politècnica de Catalunya	Barcelona	SPAIN	0	1	0	1
Linköping U. - ISY	Linköping	SWEDEN	1	0	0	1
Lund U.	Lund	SWEDEN	0	3	0	3
APTASIC	Boudry	SWITZERLAND	0	0	2	2
EPFL	Lausanne	SWITZERLAND	0	1	0	1
ETH	Zurich	SWITZERLAND	0	1	0	1
Metrolab	Plan Les Ouates	SWITZERLAND	0	0	1	1
U. of Southampton	Southampton	U.K	2	0	0	2
Adsantec, Inc.	Torrance	USA	0	0	5	5
Alphacore, Inc.	Tempe	USA	0	0	3	3
Drexel U.	Philadelphia	USA	0	1	0	1
Process Metrix	Pleasanton	USA	0	0	1	1
U. of California	La Jolla	USA	0	1	0	1
U. of California, Davis	Davis	USA	0	1	0	1
U. of Houston	Houston	USA	0	2	0	2
U. of Michigan	Ann Arbor	USA	0	2	0	2
TOTAL: 77 Institutions		22 Countries	8	90	75	173

APPENDIX 2: Institutions having submitted circuits for Industrial purpose in 2018

NOPTTEL	Oulu	FINLAND
CEA Saclay	Gif S/Yvette	FRANCE
Cegitek	Aubagne	FRANCE
LETI/CEA	Grenoble	FRANCE
LPC / ENSICAEN	Caen	FRANCE
NIPSON	Belfort	FRANCE
OMEGA	Orsay	FRANCE
Seamless Waves	Paris	FRANCE
Somos Semiconductor SAS	Marly le Roi	FRANCE
THALES Alenia Space	Toulouse	FRANCE
THALES Systems Aeroportes	Elancourt	FRANCE
WEEROC	Palaiseau	FRANCE
Xdigit	Grenoble	FRANCE
Micram Microelectronic GmbH	Bochum	GERMANY
WEASIC Microelectronics SA	Maroussi	GREECE
Siliconsortium Ltd	Hyogo	JAPAN
Krakow Design Consultants	Krakow	POLAND
APTASIC	Boudry	SWITZERLAND
Metrolab	Plan Les Ouates	SWITZERLAND
Adsantec, Inc.	Torrance	USA
Alphacore, Inc.	Tempe	USA
Process Metrix	Pleasanton	USA

APPENDIX 3: Low volume production in 2018

Technology	Institution	Country	Total
55 nm BiCMOS055	Ghent U.	BELGIUM	50
130 nm SiGe BiCMOS9MW	THALES Alenia Space	FRANCE	50
130 nm SiGe BiCMOS9MW	THALES Alenia Space	FRANCE	50
0.35 µm CMOS C35B4C3	Process Metrix	USA	50
0.35 µm CMOS C35B4C3	Siliconsortium Ltd	JAPAN	60
55 nm BiCMOS055	Ghent U.	BELGIUM	75
55 nm BiCMOS055	Ghent U.	BELGIUM	75
0.35 µm CMOS C35B4C3	Laboratoire de Physique des Plasmas	FRANCE	90
130 nm SiGe BiCMOS9MW	THALES Systems Aeroportes	FRANCE	100
130 nm SiGe BiCMOS9MW	THALES Systems Aeroportes	FRANCE	100
130 nm SiGe BiCMOS9MW	THALES Systems Aeroportes	FRANCE	100
130 nm SiGe BiCMOS9MW	THALES Systems Aeroportes	FRANCE	100
130 nm SiGe BiCMOS9MW	THALES Systems Aeroportes	FRANCE	100
130 nm SiGe BiCMOS9MW	THALES Systems Aeroportes	FRANCE	100
130 nm SiGe BiCMOS9MW	THALES Systems Aeroportes	FRANCE	100
130 nm SiGe BiCMOS9MW	THALES Systems Aeroportes	FRANCE	100
0.35 µm CMOS-Opto C35B4O1	Siliconsortium Ltd	JAPAN	100
130 nm HCMOS9GP	EPFL	SWITZERLAND	100
0.35 µm CMOS C35B4C3	CEA-Saclay	FRANCE	135
55 nm BiCMOS055	IMEC	BELGIUM	143
55 nm BiCMOS055	U. of Toronto	CANADA	150
0.35 µm CMOS C35B4C3	Newronika	ITALY	150
0.35 µm CMOS C35B4C3	Newronika	ITALY	157
55 nm BiCMOS055	IMEC	BELGIUM	161
130 nm SiGe BiCMOS9MW	THALES Systems Aeroportes	FRANCE	200
130 nm SiGe BiCMOS9MW	THALES Systems Aeroportes	FRANCE	200
55 nm BiCMOS055	Micram Microelectronic GmbH	GERMANY	200
130 nm HCMOS9GP	Metrolab	SWITZERLAND	200
0.35 µm CMOS High Voltage H35B4D3	THALES Systems Aeroportes	FRANCE	400
130 nm SiGe BiCMOS9MW	THALES Systems Aeroportes	FRANCE	500
130 nm SiGe BiCMOS9MW	THALES Systems Aeroportes	FRANCE	500
0.35 µm CMOS C35B4C3	CEA Saclay	FRANCE	800
0.35 µm CMOS C35B4C3	CEA-Saclay	FRANCE	800
0.35 µm CMOS C35B4C3	IMT Atlantique - SUBATECH	FRANCE	800
0.35 µm CMOS C35B4C3	IPHC	FRANCE	800
0.35 µm CMOS C35B4C3	CEA-Saclay	FRANCE	1 500
0.35 µm SiGe BiCMOS S35D4M5	THALES Systems Aeroportes	FRANCE	12 000
0.35 µm CMOS C35B4C3	LETI/CEA	FRANCE	1 w
0.35 µm SiGe BiCMOS S35D4M5	LETI/CEA	FRANCE	4 w
0.35 µm CMOS C35B4C3	NOPTEL	FINLAND	6 w
0.35 µm SiGe BiCMOS S35D4M5	OMEGA	FRANCE	6 w
0.35 µm SiGe BiCMOS S35D4M5	OMEGA	FRANCE	6 w
0.35 µm SiGe BiCMOS S35D4M5	WEEROC	FRANCE	6 w
0.35 µm SiGe BiCMOS S35D4M5	APTASIC	SWITZERLAND	6 w
0.35 µm SiGe BiCMOS S35D4M5	APTASIC	SWITZERLAND	6 w
0.35 µm SiGe BiCMOS S35D4M5	OMEGA	FRANCE	12 w
65 nm CMOS065	National Research U. of Electronic Technology	RUSSIA	19 w
BYE/BYQ BiCMOS	NIPSON	FRANCE	23 w
0.35 µm CMOS C35B4C3	CEA-Saclay	FRANCE	25 w
0.25 µm CMOS	Cegitek	FRANCE	25 w
130 nm H9SOI-FEM	Somos Semiconductor SAS	FRANCE	25 w

APPENDIX 4: Institutions having submitted circuits 1981- 2018

Institution	Town	Country
Commissariat aux Energies Nouvelles	Algiers	ALGERIA
CIQUIBIC Fac. Cs. Quimicas	Cordoba	ARGENTINA
U. of Adelaide	Adelaide	AUSTRALIA
U. of Sydney	Darlington	AUSTRALIA
Macquarie U.	Sydney	AUSTRALIA
U. of New South Wales	Sydney	AUSTRALIA
Telstra Research Laboratories	Victoria	AUSTRALIA
Victoria U.	Victoria	AUSTRALIA
Austrian Mikro Systeme International GmbH (AMS)	Unterpemstatten	AUSTRIA
Thomas NEUROTH	Vienna	AUSTRIA
Luceda Photonics	Denderrmonde	BELGIUM
Ghent U. ELIS-CAS	Ghent	BELGIUM
EUROPRACTICE	Leuven	BELGIUM
InterU. 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
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 U. 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 U. 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
U. of Calgary	Calgary	CANADA
Dalhousie U.	Halifax	CANADA
Canadian Microelectronics Corporation (CMC)	Kingston	CANADA
Ecole Polytechnique	Montréal	CANADA
PERASO	Montréal	CANADA
Ryerson U.	Toronto	CANADA
U. of Toronto	Toronto	CANADA
Simon Fraser U.	Vancouver	CANADA
U. of British Columbia	Vancouver	CANADA
U. of Waterloo	Waterloo	CANADA
U. of Science & Tech. of China	Beijing	CHINA
U. of Macau	Macau	CHINA
Southeast U., Inst.e of RF-&OE-Ics	Nanjing	CHINA
Southern U. of Science and Technology	Shenzen	CHINA
Universidad del Valle	Cali	COLOMBIA
Universidad de Antioquia, Depto de Ingenieria Electronica	Medellin	COLOMBIA
U. of Zagreb	Zagreb	CROATIA
Czech Tecnical U.	Prague	CZECH REPUBLIC
Aalborg Univeristy, RISC group	Aalborg	DENMARK
Technical U. of Denmark, Centre for Integrated Electronics	Lyngby	DENMARK
Technical U. of Denmark, Dept of Electromagnetics Systems	Lyngby	DENMARK
Technical U. of Denmark, Dept of Information Technology	Lyngby	DENMARK
Jydsk Telefon	Tranbjerg	DENMARK
Ain Shams U., ECE Dept	Cairo	EGYPT
Ain Shams U., Integrated Circuits	Cairo	EGYPT
AOI Electronics, VLSI Design Center	Cairo	EGYPT
MEMSCAP	Cairo	EGYPT

Si-Ware Systems	Cairo	EGYPT
Aalto U.	Espoo	FINLAND
Helsinki U. of Technology - ECDL	Espoo	FINLAND
VTT INFORMATION TECHNOLOGY	Espoo	FINLAND
Ylinen Electronics	Kauniainen	FINLAND
Lappeenranta U. of Technology	Lappeenranta	FINLAND
NOPTEL OY	Oulu	FINLAND
U. of Oulu	Oulu	FINLAND
U. of Oulu - Electronics Laboratory	Oulu	FINLAND
Tampere U. of Technology	Tampere	FINLAND
U. 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
Cegitek	Aubagne	FRANCE
Centre Universitaire des Sciences et Techniques	Aubiere	FRANCE
Lab. 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 sup. des techno. 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
Lab. d'Electr. 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 Sup. d'Electro. 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
U. de Bourgogne, Lab. d'Electr., d'Infor. et d'Image (LE2I)	Dijon	FRANCE
BOSCH	Drancy	FRANCE
Ecole Centrale de Lyon	Ecully	FRANCE
THALES Systèmes Aéroportés	Elancourt	FRANCE
Inst. National des Télécommunications	Evry	FRANCE
Lab. d'Astrophysique de Bordeaux	Floirac	FRANCE
ID3 Semiconductors	Fontanil	FRANCE
Lab. 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'Études Nucléaires de Bordeaux-Gradignan (CENBG)	Gradignan	FRANCE
ID-MOS	Gradignan	FRANCE
SILWAY	Gradignan	FRANCE
G2ELab	Grenoble	FRANCE
Inst. de Microél., Electromagnétisme et Photonique (IMEP)	Grenoble	FRANCE
Iroc	Grenoble	FRANCE
Lab. RFIC	Grenoble	FRANCE
Lab. de Physique Subatomique et de cosmologie (LPSC)	Grenoble	FRANCE
Lab. 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 Math. Appli. de Grenoble	Grenoble	FRANCE
European Synchrotron Radiation Facility (ESRF)	Grenoble	FRANCE
Inst. des Sciences Nucléaires	Grenoble	FRANCE
Inst. Universitaire de Technologie	Grenoble	FRANCE
Lab. de Physique des Composants à Semiconducteurs (LPCS)	Grenoble	FRANCE
Lab. des Images et Signaux (LIS ex. LTIRF)	Grenoble	FRANCE
LETI / CEA	Grenoble	FRANCE
Tech. de l'Inf. & de la Micro. pour l'Archit. des Syst. Intégrés (TIMA)	Grenoble	FRANCE
Thomson-CSF Semiconducteurs Spécifiques	Grenoble	FRANCE
Unité de Génie Matériel (Lab. 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 Sup. de Sciences Appl. et Technol. (ENSSAT)	Lannion	FRANCE
Lab. Le2i	Le Creusot	FRANCE
Inst. Universitaire de Technologie de Sénart	Lieusaint	FRANCE
Inst. Supérieur d'Electronique du Nord (ISEN)	Lille	FRANCE
Philips Microwave Limeil (PML)	Limeil Brevannes	FRANCE
SODERN	Limeil Brevannes	FRANCE
XLIM	Limoges	FRANCE
Capteur Microél. et Microoptique (C2M), Fac. Sci. de Limoges	Limoges	FRANCE
Inst. de Rech. en Comm. Optiques et Microondes (IRCOM)	Limoges	FRANCE
Université de Limoges, DEA	Limoges	FRANCE
Inst. de Physique Nucléaire de Lyon	Lyon	FRANCE
Ecole Supérieure de Chimie Physique et Electr. (ESCP - ICPI)	Lyon	FRANCE
Lab. Image, Signal et Acoustique (LISA)	Lyon	FRANCE
Somos Semiconductor SAS	Marly le Roi	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
Xdigit SAS	Moirans	FRANCE
TIEMPO	Montbonnot	FRANCE
VALPTEK	Montbonnot St Martin	FRANCE
CORTUS SA	Montpellier	FRANCE
Inst. d'Electronique du Sud	Montpellier	FRANCE
MENTA	Montpellier	FRANCE
Lab. d'Inform., de Robotique et de Microél (LIRMM)	Montpellier	FRANCE
Université de Montpellier II - ISIM	Montpellier	FRANCE
Station de Radioastronomie de Nançay, CNRS	Nançay	FRANCE
SCHNEIDER Electric	Nanterre	FRANCE
Ecole de Mines de Nantes	Nantes	FRANCE
IMT Atlantique - SUBATECH	Nantes	FRANCE
Inst. de Rech. Enseign. Sup. Techn. et Electron.	Nantes	FRANCE
Ecole Sup. d'Ing. en Electrotech. et Electronique	Noisy le Grand	FRANCE
Lab. de Physique et Chimie de l'Environnement (LPCE)	Orléans	FRANCE
C2N U. Paris Sud	Orsay	FRANCE
WEEROC	Orsay	FRANCE
Lab. de l'Accélérateur Linéaire	Orsay	FRANCE
Lab. de Recherche en Informatique	Orsay	FRANCE
Lab. pour l'Utilisation du Rayonnement Electrom.(LURE)	Orsay	FRANCE
Thomson LCR	Orsay	FRANCE
Université de Paris Sud – Inst. 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
Seamless Waves	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
Inst. de Programmation	Paris	FRANCE
Inst. Supérieur d'Electronique de Paris (ISEP)	Paris	FRANCE
Labo. de Méthodes et Archi. de Syst. Informatiques (LAMSI)	Paris	FRANCE
Lab. d'Electronique Analogique et Micro-ondes (LEAM)	Paris	FRANCE
Lab. de Physique Nucléaire et de Hautes Energies (LPNHE)	Paris	FRANCE
Lab. des Instruments et Systèmes (LIS)	Paris	FRANCE
Lab. 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
Inst. de Rech. en Informat. et Syst. Aléatoires (IRISA)	Rennes	FRANCE
Inst. National Sciences Appliquées (INSA)	Rennes	FRANCE
CSEE Transport	Riom	FRANCE
Inst. 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
Lab. Hubert Curien	St Etienne	FRANCE
Lab. Traitement du Signal et Instrumentation	St Etienne	FRANCE
Inst. Franco-Allemand de Recherches de St-Louis (ISL)	St Louis	FRANCE
Ecole Polytechnique	St Maur des Fosssés	FRANCE
Leroy Automatique Industrielle	St Orens	FRANCE
ICube	Strasbourg	FRANCE
Inst. d'Electronique du Solide et des Systèmes	Strasbourg	FRANCE
Inst. Pluridisciplinaire Hubert Curien (IPHC)	Strasbourg	FRANCE
Université Louis Pasteur	Strasbourg	FRANCE
Centre Commun d'Ens. Sup. de Micro. Avancée (CCESMAA)	Talence	FRANCE
Ec. Nat. Sup. d'Electronique, Inf. et de Radiocom. (ENSIERB)	Talence	FRANCE
Université de Bordeaux I - DESS	Talence	FRANCE
Université de Bordeaux I - Lab. de Microélectronique (IMS)	Talence	FRANCE
Lab. de Matériaux et Microelectronique de Provence (L2MP)	Toulon	FRANCE
Centre de Recherche de l'ISEM (ISEN – Toulon)	Toulon	FRANCE
ALCATEL SPACE	Toulouse	FRANCE
Lab. TESA (Télécommunications Spatiales et Aéronautique)	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'Electr. d'Electrotech. d'Inf. et d'Hydr. (ENSEEIH)	Toulouse	FRANCE
Ecole Nationale d'Aviation Civile (ENAC)	Toulouse	FRANCE
Ecole Supérieure de l'Aéronautique (Sup'Aéro)	Toulouse	FRANCE
Inst. National Sciences Appliquées (INSA)	Toulouse	FRANCE
Inst. National Sciences Appliquées, Génie Electrique (DGE)	Toulouse	FRANCE
Inst. Universitaire de Technologie, Dept GEII	Toulouse	FRANCE
Lab.s 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
U. Henri Poincaré, DEA Instrumentation et Micro-électronique	Vandoeuvre	FRANCE
Ecole Nat. Sup. d'Electricite et de Mécanique	Vandoeuvre les Nancy	FRANCE
Lab. d'Instrumentation Electronique de Nancy (LIEN)	Vandoeuvre les Nancy	FRANCE
Lab. de Physique des Plasmas (LPP)	Velizy Villacoublay	FRANCE
MATRA Défense	Vélizy Villacoublay	FRANCE
SOFRADIR	Veurey Voroize	FRANCE
Inst. d'Electronique et de Microélectronique du Nord (IEMN)	Villeneuve d'Ascq	FRANCE
Lab. d'Informatique Fondamentale de Lille	Villeneuve d'Ascq	FRANCE
Université des Sciences et Techniques de Lille	Villeneuve d'Ascq	FRANCE
Lab. de Physique des Lasers, Inst. Galilée	Villetaneuse	FRANCE
Inst. des Nanotechnologies	Villeurbanne	FRANCE
CEGELY	Villeurbanne	FRANCE
Inst. de Physique Nucléaire	Villeurbanne	FRANCE

Inst. National Sciences Appliquées (INSA)	Villeurbanne	FRANCE
Lab. d'Electronique de Nanotechnologies et Capteurs (LENAC)	Villeurbanne	FRANCE
Lab. Image, Signal et Acoustique (LISA)	Villeurbanne	FRANCE
Rheinisch Westfalische Technische Hochschule (RWTH)	Aachen	GERMANY
Fachhochschule Augsburg	Augsburg	GERMANY
U. of Bielefeld	Bielefeld	GERMANY
Micram Microelectronic GmbH	Bochum	GERMANY
Ruhr Universitat Bochum	Bochum	GERMANY
EUROCHIP	Bonn	GERMANY
U. of Bremen	Bremen	GERMANY
Darmstadt U. of Techno., Inst. of Microelectronic Systems	Darmstadt	GERMANY
Fraunhofer Inst. F. Integrierte Schaltungen IIS	Erlangen	GERMANY
Institut 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 Inst.e EMFT	Munchen	GERMANY
U. of Applied Sciences	Munchen	GERMANY
Paderborn U., Dept of Electrical Eng. & Inf. Techno	Paderborn	GERMANY
Robert Bosch GmbH	Reutlingen	GERMANY
U. of Saarland, Inst.e of Microelectronics	Saarbrücken	GERMANY
SCANDITRONIX WELLHOFER	Scwarzenbruck	GERMANY
Alcatel-Lucent Bell labs	Stuttgart	GERMANY
U. of Stuttgart - INT	Stuttgart	GERMANY
U. of Stuttgart, Inst.e of Electrical & Optical Comm. Eng.	Stuttgart	GERMANY
Hahn-Schickard-Gessellschaft - IMIT	Villingen-Schwenningen	GERMANY
U. of Wuppertal	Wuppertal	GERMANY
AMBIT Ltd	Athens	GREECE
National Technical U. of Athens	Athens	GREECE
NCSR "Demokritos", Inst.e of Microelectronics	Athens	GREECE
WEASIC Microelectronics SA	Maroussi	GREECE
Aristotle U. of Thessaloniki	Thessaloniki	GREECE
City U. of Hong Kong	Hong Kong	HONG KONG
Hong Kong Polytechnic U. - EI Dept.	Kowloon	HONG KONG
Hong Kong U. of Sc. & Technology - ECE Dept.	Kowloon	HONG KONG
Hong Kong U. of Sc. & Technology - EEE Dept.	Kowloon	HONG KONG
Hong Kong U. of Sc. & Technology - IPEL	Kowloon	HONG KONG
The Chinese U.of Hong Kong - CSE	Shatin	HONG KONG
The Chinese U. of Hong Kong - Dept El. Eng.	Shatin	HONG KONG
Vocational training Council - EDT Training Center	Wanchai	HONG KONG
Micred Ltd	Budapest	HUNGARY
Technical U. of Budapest	Budapest	HUNGARY
Centre for Development of Advanced Computing (C-DAC)	Kerala	INDIA
Indian Inst.e of Technology	Kharagpur	INDIA
Indian Inst.e of Technology Bombay (IIT Bombay)	Mumbai, Maharashtra	INDIA
Indian Inst.e 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 U. of Technology - Elect. Eng. Dept	Tehran	IRAN
Sharif U. of Technology - Electronic Center	Tehran	IRAN
Queen's U. of Belfast	Belfast	IRELAND
TYNDALL National Inst.e	Cork	IRELAND
U. College Cork	Cork	IRELAND
Technion Israel Inst.e of Technology	Haifa	ISRAEL
Bar Ilan U.	Ramat Gan	ISRAEL
Tel Aviv U.	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
Inst.o 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
U. degli Studi di Firenze, Dipto d'Elettronica & Telocom.	Firenze	ITALY

Università di Firenze, Dip. Ing. Elettronica Microelectronica	Firenze	ITALY
U. of Firenze, Dept Elect. & Telec.	Firenze	ITALY
Università Dell'Aquila, Dip. di Ing. Elettrica	L'Aquila	ITALY
Inst.e for Microelectronics & Microsystems	Lecce	ITALY
U. of Salento	Lecce	ITALY
Newronika s.r.l	Milano	ITALY
Politecnico di Milano, Dipto Chimica, Materiali Ing. Chimica	Milano	ITALY
U. of Milano Bicocca	Milano	ITALY
U. of Modena & Reggio Emilia, Dip. Ing. Informazione	Modena	ITALY
Inst.o Nazionale di Fisica Nucleare (INFN), Dipto di Sc. Fisiche	Napoli	ITALY
U. 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
U. degli studi di Pavia	Pavia	ITALY
Università degli Studi di Perugia	Perugia	ITALY
Aurelia Microelettronica S.p.a.	Pisa	ITALY
Inst.o 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
U. 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
Inst.o Nazionale di Fisica Nucleare (INFN)	Torino	ITALY
Politecnico di Torino "La Sapienza"	Torino	ITALY
Microprocessor Laboratory, ICTP/INFN	Trieste	ITALY
Costruzione Apparecchiature Elettroniche Nucleari (C.A.E.N)	Viareggio	ITALY
Optoelettronica Italia S.r.l.	Tergalo	ITALY
Toyota R&D Labs	Aichi	JAPAN
Technology Research Laboratory of Clarion Co Ltd	Fukushima	JAPAN
Shizuoka U., Research Inst.e of Electronics	Hamamatsu	JAPAN
Hiroshima U.	Hiroshima	JAPAN
SILICONSORTIUM Ltd	Hyogo	JAPAN
Matsushita Electric Industrial Co. Ltd	Kawasaki	JAPAN
Meiji U.	Kawasaki	JAPAN
ASTEM RI	Kyoto	JAPAN
Kyoto U., Dept of Elec. and Comm.	Kyoto	JAPAN
Micro Signal Co. Lte	Kyoto	JAPAN
WAKEN Co, Ltd	Kyoto	JAPAN
Nara Inst.e of Science and Technology (NAIST)	Nara	JAPAN
Shibaura Inst.e of Technology	Omiya	JAPAN
HSD co Ltd	Saitama	JAPAN
Hokkaido U., Dept of Electronic Engineering	Sapporo	JAPAN
Tohoku U. - Koyanagi Lab	Sendai	JAPAN
Tohoku U., DCMS	Sendai	JAPAN
Tohoku U., Graduate School of Inf. Sciences	Sendai	JAPAN
Tohoku U., Kameyama Laboratory	Sendai	JAPAN
Tohoku U., Research Inst.e of Electrical Comm.	Sendai	JAPAN
Maruwa Sokki Co LTd	Tokyo	JAPAN
OKI Electric Industry Co, Ltd	Tokyo	JAPAN
Tokyo U. of Agriculture & Technology, ISHII Laboratory	Tokyo	JAPAN
Tokyo U. of Science, DEE	Tokyo	JAPAN
Tokyo U. of Science, Dept of Electrical Engineering	Tokyo	JAPAN
U. of Tokyo, Dept of Math. Eng. & Informatic Physics	Tokyo	JAPAN
U. of Tokyo, Ishikawa-Hashimoto Lab.	Tokyo	JAPAN
U. of Tokyo, Dept of Electrical Engineering, Hatori-Aizawa Lab.	Tokyo	JAPAN
Tokyo Inst.e of Technology, Masu Laboratory	Yokohama	JAPAN
Electronics and Telecommunication Research Inst.e (ETRI)	Gwangju	KOREA
Kyung Hee U.	Gyeonggi-Do	KOREA
Korea Telecom	Seoul	KOREA
Chungnam National U. – Dept of Electronics Engineering	Taejon	KOREA
Korea Advanced Inst.e of Science and Technology (KAIST)	Taejon	KOREA

kyunghee U.	Yongin-Si	KOREA
Dongguk U.	Seoul	KOREA, REP. OF
U. of Macao	Taipa	MACAO
U. Technology of Petronas	Perak	MALAYSIA
TM Research & Development Sdn Bhd	Serlangor	MALAYSIA
U. of Malta, Dept of Microelectronics	Msida	MALTA
ITESM, Depto de Ingenieria Electrica y Computacional	Monterrey	MEXICO
Inst.o Nacional de Astrofisica, Optica y Electronica (INAOE)	Puebla	MEXICO
Bruco Integrated circuits bv	Borne	NETHERLANDS
ISSIS b.v.	Budelshoot	NETHERLANDS
Catena Holding B.V.	Delft	NETHERLANDS
Delft U. of Technology, ITS/OED	Delft	NETHERLANDS
Technical U. of Delft	Delft	NETHERLANDS
Philips Research	Eindhoven	NETHERLANDS
AEMICS	Enschede	NETHERLANDS
ALMA Electronic System Design	Enschede	NETHERLANDS
Hogeschool Enschede	Enschede	NETHERLANDS
U. 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
U. of Oslo, Dept of Informatics	Oslo	NORWAY
Norwegian U. of Science and Technology	Trondheim	NORWAY
SINTEF DELAB	Trondheim	NORWAY
U. of Trondheim, Dept of Physical Electronics	Trondheim	NORWAY
Ghulam Ishaq Khan Inst.e of Eng. Sciences & Techn.	Topi	PAKISTAN
U. of the Philippines Diliman	Quezon City	PHILIPPINES
Technical U. of Koszalin	Koszalin	POLAND
Krakow Design Consultants	Krakow	POLAND
U. of Mining and Metallurgy (AGH), Inst. of Electronics	Krakow	POLAND
Technical U. of Lodz	Lodz	POLAND
Poznan U. of Technology	Poznan	POLAND
Inst.e of Electron Technology	Warsaw	POLAND
Warsaw U. of Techn. (Inst. Mikroelek. Optoelek.)	Warsaw	POLAND
Warsaw U. of Techn. (Inst. of Electronic Systems)	Warsaw	POLAND
Inst.o de Telecomunicaçoes	Aveiro	PORTUGAL
U. 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 U. - Electrical Engineering Dept	Doha	QATAR
IMT	Bucharest	ROMANIA
IRIMEL	Moscow	RUSSIA
National Research U. of Electronic Techno (MIET)	Moscow	RUSSIA
Samsung Electronics	Moscow	RUSSIA
Granch Ltd	Novosibirsk	RUSSIA
SIBELL Research Center	Novosibirsk	RUSSIA
U. of Petroleum and Minerals	Dhahran	SAUDI ARABIA
Mihajlo Pupin Inst.e	Beograd	SERBIA
U. 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 U. EEE	Singapore	SINGAPORE
National U. of Singapore, DECI	Singapore	SINGAPORE
National U. of Singapore, DEE	Singapore	SINGAPORE
National U. of Singapore, DME	Singapore	SINGAPORE
National U. of Singapore, ECE	Singapore	SINGAPORE
Singapore Polytechnic, School of E&EE	Singapore	SINGAPORE
Temasek Laboratories at Nanyang Technological U.	Singapore	SINGAPORE
U. of Pretoria	Pretoria	SOUTH AFRICA
U. de Barcelona Dept d'Estr. i Constituents de la Mat. (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 U.	Palma de Mallorca	SPAIN
CEIT (Centro de Estudios e Investigaciones Técnicas)	San Sebastien	SPAIN
Universidad de Cantabria, Dpto Ingenieria de Comunicaciones	Santander	SPAIN
U. of Santiago de Compostela	Santiago de Compostela	SPAIN
Inst. de Microelectronica de Sevilla (IMSE)	Sevilla	SPAIN
Universidad de Sevilla	Sevilla	SPAIN
Universidade Politecnica de Valencia	Valencia	SPAIN
U. of Zaragoza	Zaragoza	SPAIN
Chalmers U. - Computer Engineering	Goteborg	SWEDEN
Chalmers U. - VLSI Research Group	Goteborg	SWEDEN
Chalmers U., Kungl Tekniska Hogskotan	Goteborg	SWEDEN
Chalmers U., Microwave Eletronics Lab.	Goteborg	SWEDEN
st Jude Medical AB	Jarfalla	SWEDEN
Defence Research Establ.	Linkoping	SWEDEN
Linköping U., Dept of Electrical Engineering	Linköping	SWEDEN
Linköping U., ISY	Linköping	SWEDEN
SP Devices AB	Linköping	SWEDEN
U. of Lund, Dept of Applied Electronics	Lund	SWEDEN
ACREO AB	Norkoping	SWEDEN
Ericsson AB	Stockholm	SWEDEN
Swedish Inst.e of Microelectronics	Stockholm-Kista	SWEDEN
IBA Scandronix Medical AB	Uppsala	SWEDEN
Berne U. of Applied Sciences	Biel	SWITZERLAND
APTASIC	Boudry	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, Inst. de Microtechnology	Neuchatel	SWITZERLAND
Metrolab	Plan Les Ouates	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 U.	Chiayi	TAIWAN
National Central U., NCU-SS Laboratory	Chung-Li	TAIWAN
Airwave Technology Inc.	Hsinchu	TAIWAN
Inst. Phys. Academia Sinica	Hsinchu	TAIWAN
National Chiao-Tung U., Inst.e of Electronics	Hsinchu	TAIWAN
National Sc. Council – Precision Instrument Development Center	Hsinchu	TAIWAN
Nat.Taiwan U., Inst. of Communication Engineering	Taipei	TAIWAN
National Taiwan U., Inst.e of Electrical Engineering	Taipei	TAIWAN
National Taiwan U., MBE Laboratory	Taipei	TAIWAN
National Taiwan U., MEMS Laboratory	Taipei	TAIWAN
Tatung Inst.e 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 U., BETA Laboratory	Ankara	TURKEY
Middle East Tech. U.	Ankara	TURKEY
Mikroelektronik ArGe Tas ve Tic Ltd Sti	Ankara	TURKEY
Tubitak Bilten	Ankara	TURKEY

Dogus U.	Istanbul	TURKEY
Istanbul Technical U. - ETA Design Center	Istanbul	TURKEY
Mikroelektronik Arastirma Gelistirme Tasarim	Istanbul	TURKEY
U. of Bath, Dept of Electronic and Electrical Engineering	Bath	U.K
Bournemouth Polytechnic	Bournemouth	U.K
Cambridge U., Engineering Dept	Cambridge	U.K
Midas Green Ltd	Cambridge	U.K
Microcosm Communications Ltd	Chichester	U.K
U. of Warwick	Coventry	U.K
Silicon Contact Ltd.	Croydon	U.K
The U. of Birmingham, Electrical & Electronic Eng. School	Edgbaston	U.K
EDA Solutions Ltd	Fareham	U.K
British Telecom Labs.	Ipswich	U.K
U. of Leeds, School of Electronic & Electrical Engineering	Leeds	U.K
King's College London, Dept of Electronic & Electrical Engineering	London	U.K
Middlesex U.	London	U.K
U. College London	London	U.K
U. of London VLSI Consortium	London	U.K
KJ Analogue Consulting	Malmesbury	U.K
U. of Manchester	Manchester	U.K
U. of Newcastle Upon Tyne	Newcastle	U.K
U. of Nottingham	Nottingham	U.K
Zetex plc.	Oldham	U.K
ACAPELLA	Southampton	U.K
U. of Southampton, Dept of Electronics & Computer Science	Southampton	U.K
Staffordshire U., School of Eng. and Advanced Technology	Stafford	U.K
U. of York	York	U.K
Al Rezwan Electronics Trading Est.	Dubai	UAE
Facultad de Ingenieria, Inst.o de Ingenieria Electrica	Montevideo	URUGUAY
U. De la Republica Uruguay, Inst. De Ingeniera Electrica	Montevideo	URUGUAY
Newlans Inc.	Acton	USA
The U. of Akron foundation	Akron	USA
Iowa State U.	Ames	USA
U. of Massachusetts	Amherst	USA
U. of Michigan, Dept EECS	Ann Arbor	USA
Georgia Inst.e of Technology	Atlanta	USA
John Hopkins U.	Baltimore	USA
Fermi National Accelerator Lab. (FERMILAB)	Batavia	USA
Berkeley Wireless Research Center	Berkeley	USA
U. of California	Berkeley	USA
Boston U., ECE Dept	Boston	USA
National Inst.e of Standards & Technology (NIST)	Boulder	USA
Massachusetts Inst.e of Technology	Cambridge	USA
U. of Virginia - DECE	Charlottesville	USA
Clemson U.	Clemson	USA
The Ohio State U.	Columbus	USA
Obsidian Technology	Dana Point	USA
U. of California, Dept of Electrical & Computer Engineering	Davis	USA
Cedars Semiconductor Corp.	Dublin	USA
U. of Florida	Gainesville	USA
Georgia Electronic Design Center	Georgia	USA
NASA's Goddard Space Flight Center (GSFC)	Greenbelt	USA
U. of Houston	Houston	USA
U. of California, Irvine	Irvine	USA
Columbia U., NEVIS Lab.	Irvington	USA
Achronix Semiconductor LLC	Ithaca	USA
Cornell U.	Ithaca	USA
U. of California, San Diego	La Jolla	USA
Utah State U.	Logan	USA
U. 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

U. of Minnesota	Minneapolis	USA
Columbia U., CISL	New York	USA
California Inst.e of Technology	Pasadena	USA
Drexel U.	Philadelphia	USA
U. of Pennsylvania	Philadelphia	USA
Carnegie Mellon U., ECE Dept	Pittsburgh	USA
Process Metrix	Pleasanton	USA
The U. of Texas at Dallas - ECSN	Richardson	USA
The U. of Texas at Dallas - EE Dept.	Richardson	USA
U. of Rochester	Rochester	USA
U. of Utah	Salt Lake City	USA
U. of Washington, Dept of Electrical Engineering	Seattle	USA
Stanford U.	Stanford	USA
SIBeam, Inc	Sunnyvale	USA
U. of South Florida	Tampa	USA
Alphacore, Inc.	Tempe	USA
Arizona State U.	Tempe	USA
Sygnal Semiconductor LLC	Tempe	USA
Adsantec, Inc.	Torrance	USA
Rensselaer Polytechnic Inst.	Troy	USA
Radiation Monitoring devices	Watertown	USA

619 Institutions used CMP from 1981

16 new users in 2018

APPENDIX 5: History of CMP projects 1981-2018

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 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
2017	IRT Nanoelec/LETI-CEA	Si310	PHMP2M	130nm	1
2017	ams	H18A6	High Voltage	0.18	4
2017	ams	C35B4C3	CMOS	0.35	10
2017	ams	C35B4C3	MEMS Bulk	0.35	1
2017	ams	C35B4O1	CMOS-Opto	0.35	4
2017	ams	C35B4M3	CMOS RF	0.35	3
2017	ams	S35B4M3	SiGe BiCMOS	0.35	2
2017	ams	H35B4D3	High Voltage	0.35	7
2017	STMicroelectronics	CMOS130	HCMOS9GP	130nm	1
2017	STMicroelectronics	HCMOS9-SOI	H9SOI-FEM	130nm	2
2017	STMicroelectronics	BiCMOS9MW	SiGe BiCMOS9MW	130nm	5
2017	STMicroelectronics	H9A1711 MADII	HCMOS9A	130nm	1
2017	STMicroelectronics	CMOS28FDSOI	CMOS28FDSOI	28nm	4
2017	STMicroelectronics	BiCMOS55	BiCMOS055	55nm	3
2017	STMicroelectronics	CMOS065	CMOS065	65nm	3
37 years	22 foundries	73 technologies	17 types		1053 runs

Table 1 – History of CMP runs from 1981 to 2017

Foundry	Technology	Run	Inst.	Edu	Res	Ind	Total cir
IRT Nanoelec/LETI-CEA	Si310-PHMP2M	L13F18_1	1	0	1	0	1
M03Z18_1	PiezoMUMPS	M03Z18_1	1	0	2	0	2
IBM	T92B 0.25µm CMOS		1	0	0	1	1
ams	0.18 µm CMOS High Voltage H18A6	A18V18_1	2	0	2	0	2
ams	0.35 µm CMOS C35B4C3	A35C09_6	1	0	0	1	1
ams	0.35 µm CMOS C35B4C3	A35C16_2	1	0	0	1	1
ams	0.35 µm CMOS C35B4C3	A35C16_3	1	0	1	0	1
ams	0.35 µm CMOS C35B4C3	A35C17_1	1	0	0	1	1
ams	0.35 µm CMOS C35B4C3	A35C18_1	6	0	5	3	8
ams	0.35 µm CMOS C35B4C3	A35C18_2	6	1	4	1	6
ams	0.35 µm CMOS C35B4C3	A35C18_3	4	0	3	1	4
ams	0.35 µm CMOS C35B4C3	A35C18_4	5	2	3	2	7
ams	0.35 µm CMOS C35B4C3	SA35C10_3	1	0	0	1	1
ams	0.35 µm CMOS C35B4C3	SA35C17_2	1	0	0	1	1
ams	0.35 µm CMOS C35B4C3	SA35C18_1	1	0	0	1	1
ams	0.35µm CMOS-Opto C35B4O1	A35O18_1	2	0	1	1	2
ams	0.35µm CMOS-Opto C35B4O1	A35O18_2	1	0	2	0	2
ams	0.35µm CMOS RF C35B4M3	A35R18_1	1	0	1	0	1
ams	0.35µm CMOS RF C35B4M3	A35R18_2	2	0	2	0	2
ams	0.35µm CMOS RF C35B4M3	A35R18_3	1	0	1	0	1
ams	0.35µm SiGe BiCMOS S35D4M5	A35S18_1	2	0	3	0	3
ams	0.35µm SiGe BiCMOS S35D4M5	A35S18_2	2	1	1	0	2
ams	0.35µm SiGe BiCMOS S35D4M5	SA35S13_2	1	0	0	1	1
ams	0.35µm SiGe BiCMOS S35D4M5	SA35S16_1	1	0	0	1	1
ams	0.35µm SiGe BiCMOS S35D4M5	SA35S17_1	1	0	0	1	1
ams	0.35µm SiGe BiCMOS S35D4M5	SA35S18_1	2	0	0	3	3
ams	0.35µm CMOS High Voltage H35B4D3	A35V18_1	3	1	2	0	3
ams	0.35µm CMOS High Voltage H35B4D3	A35V18_2	1	0	2	0	2
ams	0.35µm CMOS High Voltage H35B4D3	A35V18_3	1	1	0	0	1
ams	0.35µm CMOS High Voltage H35B4D3	A35V18_4	2	0	1	1	2
ams	0.35µm CMOS High Voltage H35B4D3	SA35V12_2	1	0	0	2	2
ams	BYE/BYQ BiCMOS	SA80B07_1	1	0	0	1	1
STMicroelectronics	130 nm HCMOS9A	S13V18_1	1	0	0	2	2
STMicroelectronics	130nm HCMOS9GP	S13C16_1	1	0	0	1	1
STMicroelectronics	130nm HCMOS9GP	S13C16_3	1	0	1	0	1
STMicroelectronics	130nm H9SOI-FEM	SS13I18_1	1	0	0	5	5
STMicroelectronics	130 nm SiGe BiCMOS9MW	S13S18_1	1	0	0	4	4
STMicroelectronics	130 nm SiGe BiCMOS9MW	S13S18_2	5	0	4	5	9
STMicroelectronics	130 nm SiGe BiCMOS9MW	SS13S18_1	6	1	3	16	20
STMicroelectronics	0.16µm BCD8sP SOI HV	S16D18_1	1	0	1	0	1
STMicroelectronics	0.16µm BCD8sP SOI HV	S16D18_3	1	0	1	0	1
STMicroelectronics	28 nm CMOS28FDSOI	S28I18_1	12	0	14	6	20
STMicroelectronics	55 nm BiCMOS055	S55S17_1	1	0	1	0	1
STMicroelectronics	55 nm BiCMOS055	S55S17_2	1	0	1	0	1
STMicroelectronics	55 nm BiCMOS055	S55S18_2	2	0	1	3	4
STMicroelectronics	55 nm BiCMOS055	S55S18_3	3	0	7	2	9
STMicroelectronics	55 nm BiCMOS055	S55S18_4	5	0	5	5	10
STMicroelectronics	65 nm CMOS065	S65C18_1	3	0	3	0	3
STMicroelectronics	65 nm CMOS065	S65C18_2	6	0	10	1	11
STMicroelectronics	65 nm CMOS065	S65C18_3	2	1	1	0	2
		50 runs		8	90	75	173

Table 2 – History of CMP runs in 2018

Total since 1981: 1,103 runs / 74 technologies

Total number of circuits from 1981: 8,116

➔ **4,755 Research circuits**

➔ **1,730 Educational circuits**

➔ **1,631 Industrial circuits**