

## RADIOCARBON LABORATORIES

This is *Radiocarbon's* annual list of active radiocarbon laboratories and personnel known to us. Laboratory code designations, used to identify published dates, are given to the left of the listing. (See p 2093 for a complete list of past and present lab codes.)

Please notify us of any changes in staff, addresses, or other contact information.

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| AA       | NSF-Ariz. AMS Facility                       | USA            | DIC*     | Dicar Corp and Dicarb                                   | USA             |
| AAR      | University of Aarhus                         | Denmark        | DK       | Univ. de Dakar  | Sénégal         |
| AC       | Ingeis                                       | Argentina      | DRI*     | Desert Research Institute                               | USA             |
| AECV*    | Alberta Environmental Center of Vegreville   | Canada         | DSA      | CIRCE, Caserta  | Italy           |
| AERIK*   | Atomic Energy Res. Inst.                     | Korea          | D-AMS    | Direct AMS  | USA             |
| ALG*     | Algiers                                      | Algeria        | ENEA     | ENEA, Bologna   | Italy           |
| ANL*     | Argonne Nat. Lab.                            | USA            | Erl      | Erlangen AMS Facility                                   | Germany         |
| ANSTO    | Australian Nuclear Science & Technology      | Australia      | ETH      | ETH/AMS Facility  | Switzerland     |
| ANTW*    | Antwerp                                      | Belgium        | F*       | Florence  | Italy           |
| ANU*     | Australian National University               | Australia      | Fr*      | Freiberg  | Germany         |
| ANUA     | ANU Accelerator                              | Australia      | Fra*     | Frankfurt   | Germany         |
| AU*      | University of Alaska                         | USA            | FSU*     | Florida State University                                | USA             |
| B        | Bern   | Switzerland    | FZ       | Fortaleza   | Brazil          |
| Ba       | Bratislava                                   | Slovakia       | G*       | Göteborg  | Sweden          |
| BC*      | Brooklyn College                             | USA            | GAK*     | Gakushuin University                                    | Japan           |
| BE       | University of Bern                           | Switzerland    | Gd       | Gliwice   | Poland          |
| Beta     | Beta Analytic                                | USA            | GD*      | Gdansk  | Poland          |
| BGS*     | Brock University                             | Canada         | Gif      | Gif-sur-Yvette  | France          |
| BIOCAMS* | Miami  | USA            | Gif A    | Gif-sur-Yvette and Orsay                                | France          |
| Birm*    | Birmingham                                   | UK             | GIN      | Geological Institute                                    | Russia          |
| Bln*     | Berlin                                       | Germany        | GL*      | Geochronological Lab.                                   | England         |
| BM*      | British Museum                               | England        | Gro*     | Groningen   | the Netherlands |
| BONN*    | Universität Bonn                             | Germany        | GrN*     | Groningen   | the Netherlands |
| BS       | Birbal Sahni Institute                       | India          | GrA      | Groningen AMS   | the Netherlands |
| C*       | Chicago                                      | USA            | GSC      | Geological Survey                                       | Canada          |
| CAMS     | Center for Accelerator Mass Spectrometry     | USA            | GU*      | Scottish Universities Research & Reactor Centre         | Scotland        |
| CAR*     | Univ. College, Cardiff                       | Wales          | GX       | Geochron Laboratories                                   | USA             |
| CENA     | Centro Energia Nuclear na Agricultura        | Brazil         | H*       | Heidelberg  | Germany         |
| CG       | Institute of Geology                         | China          | HAM      | Hamburg   | Germany         |
| CH*      | Chemistry Laboratory                         | India          | HAR*     | Harwell   | England         |
| CNA      | Centro Nacional de Aceleradores              | Spain          | Hd       | Heidelberg  | Germany         |
| COL      | Köln AMS                                     | Germany        | Hel      | Helsinki  | Finland         |
| CRCA*    | Cairo  | Egypt          | Hela     | Helsinki AMS  | Finland         |
| CRL      | Czech Radiocarbon Lab.                       | Czech Republic | HIG*     | Hawaii Inst. of Geophys.                                | USA             |
| CSIC     | Geochronology Lab, IQFR-CSIC, Madrid         | Spain          | HL       | Second Institute of Oceanography                        | China           |
| CSM*     | Cosmochemistry Lab. USSR Academy of Sciences | USSR           | HNS*     | Hasleton-Nuclear, Palo Alto, California                 | USA             |
| CT*      | Caltech, Calif. Inst. Tech.                  | USA            | Hv       | Hannover  | Germany         |
| CU       | Charles University                           | Czech Republic | I*       | Teledyne Isotopes                                       | USA             |
| D*       | Dublin, Trinity College                      | Ireland        | IAA      | Institute of Accelerator Analysis (beta counting)       | Japan           |
| Dak*     | Univ. of Dakar                               | Sénégal        | IAAA     | Institute of Accelerator Analysis (AMS)                 | Japan           |
| DAL*     | Dalhousie University                         | Canada         | IAEA*    | International Atomic Energy Agency                      | Austria         |
| DE*      | USGS, Denver                                 | USA            | IAEA-MEL | Marine Environmental Laboratory                         | Monaco          |
| Deb      | Debrecen                                     | Hungary        | ICEN*    | Instituto Tecnológico e Nuclear                         | Portugal        |
| DebA     | Debrecen (AMS)                               | Hungary        | IEMAE    | Institute of Evolutionary Morphology and Animal Ecology | Russia          |
| DEM      | NCSR Demokritos                              | Greece         |          |   |                 |

\* Indicates laboratories that are closed, no longer measuring  $^{14}\text{C}$ , or operating under a different code designation.

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|-----------|---|-----------|--------|--|-------------------|
| IFAO      | Institut français d'archéologie orientale                   | Egypt     | LTL    | University of Lecce  | Italy             |
| IGAN      | Institute of Geography                                      | Russia    | Lu*    | Lund   | Sweden            |
| IGS*      | Inst. of Geological Sci.                                    | Sweden    | LuS    | Lund   | Sweden            |
| IGSB      | Inst. of Geological Sci.                                    | Belarus   | LU     | St. Petersburg State University                                      | Russia            |
| IHME      | Marzeev Inst. of Hygiene and Medical Ecology                | Ukraine   | Lv*    | Louvain-la-Neuve   | Belgium           |
| II*       | Isotopes, Inc., Palo Alto                                   | USA       | Ly     | University of Lyon   | France            |
| IMTA      | Inst. Mexicano de Tecnología del Agua                       | Mexico    | LZ     | Umweltforschungszentrum Leipzig-Halle                                | Germany           |
| IOAN*     | Inst. of Oceanography                                       | Russia    | M*     | University of Michigan   | USA               |
| IORAN*    | Institute of Oceanology                                     | Russia    | Ma*    | University of Winnipeg   | Canada            |
| IRPA*     | Royal Institute for Cultural Heritage                       | Belgium   | MAG    | Quaternary Geology and Geochronology Laboratory                      | Russia            |
| ISGS      | Illinois State Geological Survey                            | USA       | MAMS   | Curt-Engelhorn-Zentrum Archäometrie                                  | Germany           |
| IVAN*     | Institute of Volcanology                                    | Ukraine   | MC*    | Centre Scientifique de Monaco  | Monaco            |
| IVIC*     | Caracas   | Venezuela | METU*  | Middle East Technical University                                     | Turkey            |
| IWP*      | Institute of Water Problems                                 | Russia    | MKL    | Laboratory of Absolute Dating  | Poland            |
| J         | Max-Planck-Institut für Biogeochemie, Jena                  | Germany   | ML*    | Miami  | USA               |
| JGS*      | Geological Survey of Japan                                  | Japan     | Mo*    | Verdanski Inst. of Geochemistry, Moscow                              | USSR              |
| JUBR      | Biren Roy Research Laboratory                               | India     | MOC*   | Archaeological Institute, Czechoslovak Acad. of Sci.                 | Czech Republic    |
| K         | National Museum   | Denmark   | MP*    | Magnolia Petroleum   | USA               |
| KAERI*    | Korean Atomic Energy Research Institute                     | Korea     | MRR1*  | Marine Resources Research Institute                                  | USA               |
| KCP*      | National Cultural Property Research Institute               | Korea     | MSU*   | Moscow State University  | Russia            |
| KEEA      | Kyushu Environmental Evaluation Association                 | Japan     | MTC    | University of Tokyo  | Japan             |
| KGM       | Korea Institute of Geoscience and Mineral Resources (KIGAM) | Korea     | N*     | Nishina Memorial   | Japan             |
| KI*       | Kiel  | Germany   | NIST   | National Institute of Standards and Technology                       | USA               |
| KIA       | Kiel AMS  | Germany   | NOSAMS | National Ocean Sciences AMS Facility, Woods Hole Oceanographic Inst. | USA               |
| Ki (KIEV) | Institute of Radio-Geochemistry of the Environment          | Ukraine   | NPL*   | National Physical Laboratory, Middlesex                              | England           |
| KIK*      | Royal Institute for Cultural Heritage                       | Belgium   | NS*    | Nova Scotia Research Foundation                                      | Canada            |
| KN*       | Köln  | Germany   | NSRL   | INSTAAR – University of Colorado                                     | USA               |
| KR        | Krakow  | Poland    | NSTF*  | Nuclear Science and Technology Facility, State Univ. of New York     | USA               |
| KRIL*     | Krasnoyarsk Institute                                       | Russia    | NSW*   | U. of New South Wales  | Australia         |
| KSU*      | Kyoto Sangyo University                                     | Japan     | NTU    | National Taiwan University   | Republic of China |
| L*        | Lamont-Doherty  | USA       | NU*    | Nihon University   | Japan             |
| LACUFF    | Fluminense Federal University                               | Brazil    | NUTA   | Tandetron AMS Lab  | Japan             |
| LAEC      | Lebanese Atomic Energy Commission (LAEC)                    | Lebanon   | Ny*    | Nancy, Centre de Recherches Radiogéologiques                         | France            |
| LAR*      | Liège State University                                      | Belgium   | NZ*    | Rafter Radiocarbon Lab   | New Zealand       |
| LE        | St. Petersburg  | Russia    | NZA    | Rafter (AMS)   | New Zealand       |
| LIH       | NCSR Demokritos   | Greece    | O*     | Humble Oil & Refining  | USA               |
| LJ*       | Scripps (UCSD) La Jolla                                     | USA       | OBDY*  | ORSTOM Bondy   | France            |
| LOD       | Łódź  | Poland    | OR     | Research Center of Radioisotopes                                     | Japan             |
| LP        | La Plata  | Argentina |        |  |                   |

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|--------|--|----------------|--------|---|------------------|
| ORINS* | Oak Ridge Institute of Nuclear Studies     | USA            | SNU    | Seoul National Univ.                                | Korea            |
| OWU*   | Ohio Wesleyan Univ.                        | USA            | SOAN   | Institute of Geology, Geophysics, and Mineralogy    | Russia           |
| OX*    | USDA (Oxford, Miss.)                       | USA            |        |   |                  |
| OxA    | Oxford Radiocarbon Accelerator Unit        | England        | SR*    | Salisbury, Rhodesia                                 | Rhodesia         |
| OZ     | ANSTO-ANTARES                              | Australia      | SRR*   | NERC Radiocarbon Laboratory                         | Scotland         |
| P*     | Univ. of Pennsylvania                      | USA            | St*    | Stockholm   | Sweden           |
| PAL    | Palynosaurvery Co.                         | Japan          | Su*    | Finland   | Finland          |
| Pi*    | Pisa                                       | Italy          | SUA*   | University of Sydney                                | Australia        |
| PI*    | Permafrost Institute                       | Russia         | SUERC  | Scottish Universities Environmental Research Centre | Scotland         |
| PIC*   | Packard                                    | USA            |        |   |                  |
| PITT*  | University of Pittsburgh                   | USA            |        |   |                  |
| Poz    | Poznań                                     | Poland         | SWA    | Swansea   | Wales            |
| Pr*    | Prague                                     | Czech Republic | T      | Trondheim   | Norway           |
| PKU    | Peking University                          | China          | Ta     | Tartu   | Estonia          |
| PKUAMS | Peking Univ. AMS lab                       | China          | TAM*   | Texas A & M University                              | USA              |
| PL     | Purdue Rare Isotope Measurement Laboratory | USA            | TB     | Tblisi  | Georgia          |
| PLD    | Paleo Labo. Co., Ltd.                      | Japan          | TBNC*  | Kaman Instruments                                   | USA              |
| PRI    | PaleoResearch Inst.                        | USA            | TEM*   | Temple University                                   | USA              |
| PRL    | Radiocarbon Dating Research Unit           | India          | TF*    | Tata Institute of Fundamental Research              | India            |
| PRLCH  | Physical Research Laboratory               | India          | TK     | University of Tokyo                                 | Japan            |
| PSU*   | Pennsylvania State Univ.                   | USA            | TKa    | Univ. of Tokyo-AMS                                  | Japan            |
| Pta    | Pretoria                                   | South Africa   | TKU    | Turku   | Finland          |
| Q*     | Cambridge                                  | England        | Tln    | Tallinn   | Estonia          |
| QL*    | Quaternary Isotope Laboratory              | USA            | TO     | IsoTrace Laboratory                                 | Canada           |
| QC*    | Queens College                             | USA            | TRa    | Trondheim(AMS)                                      | Norway           |
| QU*    | Centre de Recherches Minérales, Québec     | Canada         | TUa    | Trondheim(AMS)                                      | Norway           |
| R      | Rome                                       | Italy          | TUNC*  | Tehran University Nuclear Centre                    | Iran             |
| RCD*   | Radiocarbon Dating                         | England        | Tx*    | Texas   | USA              |
| RI*    | Radiochemistry, Inc.                       | USA            | U      | Uppsala University                                  | Sweden           |
| RICH   | Royal Institute for Cultural Heritage      | Belgium        | Ua     | Uppsala AMS   | Sweden           |
| RIDDL* | Simon Fraser Univ.                         | Canada         | UB*    | Belfast   | Northern Ireland |
| Riga*  | Institute of Science                       | Latvia         | UBA    | Belfast   | Northern Ireland |
| RL*    | Radiocarbon, Ltd.                          | USA            | UBAR   | University of Barcelona                             | Spain            |
| Rome   | Dept. of Earth Sciences, Rome              | Italy          | UCD    | University College, Dublin                          | Ireland          |
| RT     | Rehovot                                    | Israel         | UCI    | University of California, Irvine                    | USA              |
| RTK    | Rehovot                                    | Israel         | UCLA*  | University of California, Los Angeles               | USA              |
| RU*    | Rice University                            | USA            | UCR*   | University of California, Riverside                 | USA              |
| S*     | Saskatchewan                               | Canada         | UD*    | Udine   | Italy            |
| Sa*    | Saclay, Gif-sur-Yvette                     | France         | UGa    | University of Georgia                               | USA              |
| Sac    | Instituto Tecnológico e Nuclear            | Portugal       | UGRA   | University of Granada                               | Spain            |
| SacA   | Gif sur Yvette (Saclay)                    | France         | UL*    | University of Laval                                 | Canada           |
| SFU*   | Simon Fraser Univ.                         | Canada         | ULA    | University of Laval                                 | Canada           |
| Sh*    | Shell Development Co.                      | USA            | UM*    | University of Miami                                 | USA              |
| SI*    | Smithsonian Institution                    | USA            | UNAM   | National Autonomous University of Mexico            | Mexico           |
| SL*    | Sharp Laboratories                         | USA            | UQ*    | University of Quebec at Montréal                    | Canada           |
| SM*    | Mobil Oil Corp., Dallas                    | USA            | URCRM* | Ukrainian Research Ctr. for Radiation Medicine      | Ukraine          |
| SMU*   | Southern Methodist Univ.                   | USA            |        |   |                  |

2096 *Laboratories*

|       |  |                 |       |  |             |
|-------|--|-----------------|-------|--|-------------|
| URU   | University of Uruguay                            | Uruguay         | WHAMS | National Ocean Sciences                    | USA         |
| USGS* | USGS, Menlo Park                                 | USA             |       | AMS Facility                               |             |
| UIC*  | Utrecht van de Graaff<br>Laboratorium            | the Netherlands | WIS*  | Univ. of Wisconsin                         | USA         |
| UTCAG | University of Tennessee                          | USA             | Wk    | University of Waikato                      | New Zealand |
| UW*   | University of Washington                         | USA             | WRD*  | USGS Washington, D.C.                      | USA         |
| V*    | Melbourne, Victoria                              | Australia       | WSU*  | Washington State Univ.                     | USA         |
| VERA  | Institut für Radiumfor-<br>schung und Kernphysik | Austria         | XLLQ  | Xi'an Lab. of China<br>Loess & Quat. Geol. | China       |
| VRI*  | Universität Wien                                 | Austria         | X*    | Whitworth College                          | USA         |
| W*    | USGS, National Center                            | USA             | Y*    | Yale University                            | USA         |
| WAT*  | University of Waterloo                           | Canada          | Ya*   | Yale University                            | USA         |
|       |  |                 | YU    | Yamagata University                        | Japan       |
|       |  |                 | Z     | Zagreb                                     | Croatia     |