

## RADIOCARBON LABORATORIES

This is *RADIOCARBON*'s annual list of active radiocarbon laboratories and personnel known to us. Conventional beta-counting facilities are listed in Part I, and accelerator mass spectrometry (AMS) facilities in Part II. Laboratory code designations, used to identify published dates, are given to the left of the listing. (See p 349 ff. 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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## LABORATORIES – CODE DESIGNATIONS\*

|        |                                                 |                          |              |                                                                                     |                 |
|--------|-------------------------------------------------|--------------------------|--------------|-------------------------------------------------------------------------------------|-----------------|
| A      | Arizona                                         | USA                      | Fra          | Frankfurt                                                                           | Germany         |
| AA     | NSF-Ariz. AMS Facility                          | USA                      | FSU*         | Florida State University                                                            | USA             |
| AAR    | University of Aarhus                            | Denmark                  | FZ           | Fortaleza                                                                           | Brazil          |
| AC     | Ingeis                                          | Argentina                | G*           | Göteborg                                                                            | Sweden          |
| AECV   | Alberta Environmental<br>Center of Vegreville   | Canada                   | GAK          | Gakushuin University                                                                | Japan           |
| AERIK* | Atomic Energy Res. Inst.                        | Korea                    | Gd           | Gliwice                                                                             | Poland          |
| ALG    | Algiers                                         | Algeria                  | GD*          | Gdansk                                                                              | Poland          |
| ANL*   | Argonne Nat. Lab., Ill.                         | USA                      | Gif          | Gif sur Yvette                                                                      | France          |
| ANTW   | Antwerp                                         | Belgium                  | Gif A        | Gif sur Yvette and Orsay                                                            | France          |
| ANU    | Australian National<br>University               | Australia                | GIN          | Geological Institute                                                                | Russia          |
| ANUA   | ANU Accelerator                                 | Australia                | GL*          | Geochronological Lab.                                                               | England         |
| AU*    | University of Alaska                            | USA                      | Gro*         | Groningen                                                                           | The Netherlands |
| B      | Bern                                            | Switzerland              | GrN          | Groningen                                                                           | The Netherlands |
| Ba     | Bratislava                                      | Slovakia                 | GrA          | Groningen Accelerator                                                               | The Netherlands |
| BC*    | Brooklyn College                                | USA                      | GSC          | Geological Survey                                                                   | Canada          |
| Beta   | Beta Analytic                                   | USA                      | GU           | Scottish Universities<br>Research & Reactor Centre<br>(formerly Glasgow University) | Scotland        |
| Birm   | Birmingham                                      | USA                      | GX           | Geochron Laboratories                                                               | USA             |
| Bln    | Berlin                                          | Germany                  | H*           | Heidelberg                                                                          | West Germany    |
| BM     | British Museum                                  | England                  | HAM          | Hamburg                                                                             | Germany         |
| BONN*  | Universität Bonn                                | Germany                  | HAR*         | Harwell                                                                             | England         |
| BS     | Birbal Sahni Institute                          | India                    | Hd           | Heidelberg                                                                          | Germany         |
| BSG    | Brock University                                | Canada                   | Hel          | Helsinki                                                                            | Finland         |
| C*     | Chicago                                         | USA                      | HIG*         | Hawaii Inst. of Geophys.                                                            | USA             |
| CAMS   | Center for Accelerator<br>Mass Spectrometry     | USA                      | HL           | Second Institute of<br>Oceanography                                                 | China           |
| CAR*   | Univ. College, Cardiff                          | Wales                    | HNS          | Hasleton-Nuclear,<br>Palo Alto, California                                          | USA             |
| CENA   | Centro Energia<br>Nuclear na Agricultura        | Brazil                   | Hv           | Hannover                                                                            | Germany         |
| CG     | Institute of Geology                            | China                    | I            | Teledyne Isotopes                                                                   | USA             |
| CH     | Chemistry Laboratory                            | India                    | IAEA         | International Atomic<br>Energy Agency                                               | Austria         |
| CRCA   | Cairo                                           | Egypt                    | IAEA-<br>MEL | Marine Environmental<br>Laboratory                                                  | Monaco          |
| CSIC   | Geochronology Lab,<br>IQFR-CSIC, Madrid         | Spain                    | ICEN         | Instituto Tecnológico<br>e Nuclear                                                  | Portugal        |
| CSM*   | Cosmochemistry Lab.<br>USSR Academy of Sciences | USSR                     | IEMAE        | Institute of Evolutionary<br>Morphology and Animal<br>Ecology                       | Russia          |
| CT*    | Caltech, Calif. Inst. Tech.                     | USA                      | IGAN         | Institute of Geography                                                              | Russia          |
| CU     | Charles University                              | Czech Republic           | IGS*         | Inst. of Geological Sci.,                                                           | Sweden          |
| D*     | Dublin, Trinity College                         | Ireland                  | II*          | Isotopes, Inc., Palo Alto                                                           | USA             |
| Dak*   | Univ. de Dakar                                  | République du<br>Sénégal | IOAN         | Institute of Oceano-<br>graphy                                                      | Russia          |
| DAL*   | Dalhousie University                            | Canada                   | IORAN        | Institute of Oceanology                                                             | Russia          |
| DE*    | USGS, Denver                                    | USA                      | IRPA         | Royal Institute of<br>Cultural Heritage                                             | Belgium         |
| Deb    | Debrecen                                        | Hungary                  | ISGS         | Illinois State<br>Geological Survey                                                 | USA             |
| DEM    | NCSR Demokritos                                 | Greece                   | IVAN         | Institute of Volcanology                                                            | Ukraine         |
| DIC*   | Dicar Corp and Dicarb<br>Radioisotope Company   | USA                      | IVIC*        | Caracas                                                                             | Venezuela       |
| DRI    | Desert Research Institute                       | USA                      | IWP          | Institute of Water<br>Problems                                                      | Russia          |
| ENEA   | ENEA, Bologna                                   | Italy                    |              |                                                                                     |                 |
| ETH    | ETH/AMS Facility                                | Switzerland              |              |                                                                                     |                 |
| F      | Florence                                        | Italy                    |              |                                                                                     |                 |
| Fr     | Freiberg                                        | Germany                  |              |                                                                                     |                 |

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

|           |                                                      |                |        |                                                                  |                   |
|-----------|------------------------------------------------------|----------------|--------|------------------------------------------------------------------|-------------------|
| JGS       | Geological Survey of Japan                           | Japan          | NS*    | Nova Scotia Research Foundation                                  | Canada            |
| JUBR      | Biren Roy Research Laboratory                        | India          | NSRL   | INSTAAR – University of Colorado                                 | USA               |
| K         | National Museum                                      | Denmark        | NSTF*  | Nuclear Science and Technology Facility, State Univ. of New York | USA               |
| KAERI*    | Korean Atomic Energy Research Institute              | Korea          | NSW*   | U. of New South Wales                                            | Australia         |
| KCP       | National Cultural Property Research Institute        | Korea          | NTU    | National Taiwan University                                       | Republic of China |
| KEEA      | Kyushu Environmental Evaluation Association          | Japan          | NU     | Nihon University                                                 | Japan             |
| KI        | Kiel                                                 | Germany        | Ny*    | Nancy, Centre de Recherches Radiogéologiques                     | France            |
| KIA       | Kiel AMS                                             | Germany        | NZ     | New Zealand                                                      | New Zealand       |
| Ki (KIEV) | Institute of Radio-Geochemistry of the Environment   | Ukraine        | NZA    | New Zealand                                                      | New Zealand       |
| KN        | Köln                                                 | Germany        | O*     | Humble Oil & Refining                                            | USA               |
| KR        | Krakow                                               | Poland         | OBDY   | ORSTOM Bondy                                                     | France            |
| KRIL      | Krasnoyarsk Institute                                | Russia         | ORINS* | Oak Ridge Institute of Nuclear Studies                           | USA               |
| KSU       | Kyoto Sangyo University                              | Japan          | OWU*   | Ohio Wesleyan Univ.                                              | USA               |
| L*        | Lamont-Doherty                                       | USA            | OX*    | USDA                                                             | USA               |
| LAR       | Liège State University                               | Belgium        | OxA    | Oxford Radiocarbon Accelerator Unit                              | England           |
| LE        | St. Petersburg                                       | Russia         | P*     | Univ. of Pennsylvania                                            | USA               |
| LIH       | NCSR Demokritos                                      | Greece         | Pi*    | Pisa                                                             | Italy             |
| LJ*       | Scripps (UCSD) La Jolla                              | USA            | PI     | Permafrost Institute                                             | Russia            |
| LOD       | Lodz                                                 | Poland         | PIC*   | Packard                                                          | USA               |
| LP        | La Plata                                             | Argentina      | PITT*  | University of Pittsburgh                                         | USA               |
| Lu        | Lund                                                 | Sweden         | Pr*    | Prague                                                           | Czechoslovakia    |
| LU        | St. Petersburg State University                      | Russia         | PSU*   | Pennsylvania State Univ.                                         | USA               |
| Lv        | Louvain-la-Neuve                                     | Belgium        | PKU    | Peking University                                                | China             |
| Ly        | University of Lyon                                   | France         | PL     | Purdue Rare Isotope Measurement Laboratory                       | USA               |
| LZ        | Umweltforschungszentrum Leipzig-Halle                | Germany        | PRL    | Physical Research Laboratory                                     | India             |
| M*        | University of Michigan                               | USA            | Pta    | Pretoria                                                         | South Africa      |
| Ma*       | University of Winnipeg                               | Canada         | Q      | Cambridge                                                        | England           |
| MAG       | Quaternary Geology and Geochronology Laboratory      | Russia         | QL     | Quaternary Isotope Laboratory                                    | USA               |
| MC*       | Centre Scientifique de Monaco                        | Monaco         | QC*    | Queens College                                                   | USA               |
| METU      | Middle East Technical University                     | Turkey         | QU*    | Centre de Recherches Minérales, Québec                           | Canada            |
| ML*       | Miami                                                | USA            | R      | Rome                                                             | Italy             |
| Mo*       | Verdanski Inst. of Geochemistry, Moscow              | USSR           | RCD    | Radiocarbon Dating                                               | England           |
| MOC*      | Archaeological Institute, Czechoslovak Acad. of Sci. | Czechoslovakia | RI*    | Radiochemistry, Inc.                                             | USA               |
| MP*       | Magnolia Petroleum                                   | USA            | RIDDL* | Simon Fraser Univ.                                               | Canada            |
| MRRI*     | Marine Resources Research Institute                  | USA            | Riga   | Institute of Science                                             | Latvia            |
| MSU       | Moscow                                               | Russia         | RL*    | Radiocarbon, Ltd.                                                | USA               |
| N         | Nishina Memorial                                     | Japan          | Rome   | Department of Earth Sciences, Rome                               | Italy             |
| NIST      | National Institute of Standards and Technology       | USA            | RT     | Rehovot                                                          | Israel            |
| NPL*      | National Physical Laboratory, Middlesex              | England        | RU*    | Rice University                                                  | USA               |
|           |                                                      |                | S*     | Saskatchewan                                                     | Canada            |
|           |                                                      |                | Sa*    | Saclay, Gif-sur-Yvette                                           | France            |
|           |                                                      |                | Sac    | Instituto Tecnológico e Nuclear                                  | Portugal          |

|       |                                                                      |                  |       |                                                       |                 |
|-------|----------------------------------------------------------------------|------------------|-------|-------------------------------------------------------|-----------------|
| SFU*  | Simon Fraser Univ.                                                   | Canada           | UCD   | University College,                                   | Ireland         |
| Sh*   | Shell Development Co.                                                | USA              |       | Dublin                                                |                 |
| SI*   | Smithsonian Institution                                              | USA              | UCI   | University of California,                             | USA             |
| SL*   | Sharp Laboratories                                                   | USA              |       | Irvine                                                |                 |
| SM*   | Mobil Oil Corp., Dallas<br>(formerly Magnolia &<br>Socony Mobil Oil) | USA              | UCLA  | University of California,                             | USA             |
|       |                                                                      |                  |       | Los Angeles                                           |                 |
| SMU*  | Southern Methodist Univ.                                             | USA              | UCR   | University of California,                             | USA             |
|       |                                                                      |                  |       | Riverside                                             |                 |
| SNU   | Seoul National Univ.                                                 | Korea            | UD    | Udine                                                 | Italy           |
| SOAN  | Institute of Geology<br>and Geophysics                               | Russia           | UGa   | University of Georgia                                 | USA             |
|       |                                                                      |                  | UGRA  | University of Granada                                 | Spain           |
| SR*   | Salisbury, Rhodesia                                                  | Rhodesia         | UM*   | University of Miami                                   | USA             |
| SRR   | NERC Radiocarbon<br>Laboratory                                       | Scotland         | UQ    | University of Quebec<br>at Montreal                   | Canada          |
| St*   | Stockholm                                                            | Sweden           | URCRM | Ukrainian Research Ctr.<br>for Radiation Medicine     | Ukraine         |
| Su    | Finland                                                              | Finland          |       |                                                       |                 |
| SUA   | Sydney University                                                    | Australia        | URU   | University of Uruguay                                 | Uruguay         |
| SWA   | Swansea                                                              | Wales            | USGS  | USGS, Menlo Park                                      | USA             |
| T     | Trondheim                                                            | Norway           | UtC   | Utrecht Van de Graaff<br>Laboratorium                 | The Netherlands |
| TA    | Tartu                                                                | Estonia          |       |                                                       |                 |
| TAM   | Texas A & M University                                               | USA              | UW*   | University of Washington                              | USA             |
| TB    | Tblisi                                                               | Georgia          | V*    | Melbourne, Victoria                                   | Australia       |
| TBNC* | Kaman Instruments<br>(formerly Texas-Bio-Nuclear)                    | USA              | VRI   | Vienna Radium Institute                               | Austria         |
|       |                                                                      |                  | W     | USGS, National Center                                 | USA             |
| TEM*  | Temple University                                                    | USA              | WAT   | University of Waterloo                                | Canada          |
| TF*   | Tata Institute of<br>Fundamental Research                            | India            | WHAMS | National Ocean Sciences<br>AMS Facility               | USA             |
| TK    | University of Tokyo                                                  | Japan            |       |                                                       |                 |
| TKU   | Turku                                                                | Finland          | WIS   | Wisconsin                                             | USA             |
| Tln   | Tallinn                                                              | Estonia          | Wk    | University of Waikato                                 | New Zealand     |
| TO    | IsoTrace Laboratory                                                  | Canada           | WRD*  | USGS Washington, D.C.<br>Water Resources Division     | USA             |
| TUNC  | Tehran University<br>Nuclear Centre                                  | Iran             |       |                                                       |                 |
|       |                                                                      |                  | WSU*  | Washington State Univ.                                | USA             |
| Tx*   | Texas                                                                | USA              | XLLQ  | Xian Laboratory of<br>Loess and Quaternary<br>Geology | China           |
| U     | Uppsala                                                              | Sweden           |       |                                                       |                 |
| Ua    | Uppsala Accelerator                                                  | Sweden           | X*    | Whitworth College                                     | USA             |
| UB    | Belfast                                                              | Northern Ireland | Y*    | Yale University                                       | USA             |
| UBAR  | University of Barcelona                                              | Spain            | Ya*   | Yale University                                       | USA             |
|       |                                                                      |                  | Z     | Zagreb                                                | Croatia         |