

## 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 1416 ff. for a complete list of past and present lab codes.)

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

### I. CONVENTIONAL <sup>14</sup>C COUNTING FACILITIES

#### ARGENTINA

- AC Héctor Osvaldo Panarello  
Pabellón INGEIS  
Ciudad Universitaria  
1428 Buenos Aires, Argentina  
Tel: +54 11 4783 3021/23; Fax: +54 11 4783 3024  
Email: hector@ingeis.uba.ar
- LP Aníbal Juan Figini  
Laboratorio de Tritio y Radiocarbono-LATYR  
Facultad de Ciencias Naturales y Museo-UNLP  
Paseo del Bosque S/N°  
1900 La Plata, Argentina  
Tel/Fax: +54 21 270648

#### AUSTRALIA

- ANU Rainer Grün  
Quaternary Dating Research Centre  
Australian National University  
Research School of Pacific Studies  
Canberra ACT 0200 Australia  
Tel: +61 6 249 3122; Fax: +61 6 249 0315  
Email: rainer.grun@anu.edu.au
- SUA Mike Barbetti  
The NWG Macintosh Centre for Quaternary Dating  
Madsen Building F09  
The University of Sydney  
NSW 2006 Australia  
Tel: +61 2 9351 3993; Fax: +61 2 9351 4499  
Email: m.barbetti@emu.usyd.edu.au

#### AUSTRIA

- VRI Edwin Pak  
Institut für Radiumforschung und Kernphysik  
Universität Wien  
Boltzmannngasse 3  
A-1090 Vienna, Austria  
Tel: +43 1 4277 51764; Fax: +43 1 4277 51752  
Email: pak@ap.univie.ac.at
- Franz Schönhofer  
Federal Institute for Food Control and Research  
Kinderspitalgasse 15  
A-1090 Vienna, Austria  
Tel: +43 1 40491 520; Fax: +43 1 40491 540

1396 *Laboratories*

- IAEA Manfred Gröning  
International Atomic Energy Agency (IAEA)  
Isotope Hydrology Laboratory  
Wagramerstrasse 5  
P.O. Box 100  
A-1400 Vienna, Austria  
Tel: +43 1 2600 21740/21766; Fax: +43 1 20607  
Email: M.Groening@iaea.org
- Roland Tesch  
Austrian Research and Testing Centre Arsenal  
Environment Division  
Faradaygasse 3  
A-1030 Vienna, Austria  
Tel: +43 1 79747 516  
Fax: +43 1 79747 587  
Email: tesch.r@arsenal.ac.at

**BELGIUM**

- ANTW R. Vanhoorne  
Department of General Botany  
State University Centre Antwerp  
Groenenborgerlaan 171  
B-2020 Antwerp, Belgium
- IRPA M. Van Strydonck  
Royal Institute for Cultural Heritage  
Jubelpark 1  
B-1000 Brussels, Belgium  
Tel: +32 2 739 67 11 (institute), +32 2 739 67 02 (lab)  
Fax: +32 2 732 01 05  
Email: mark.vanstrydonck@kikirpa.be
- LAR Jean Govaerts  
Lab. d'Application des Radioéléments  
Chimie B6, Sart Tilman  
Liège, Belgium

**BELARUS**

- IGSB N. D. Michailov  
Institute of Geological Sciences of the  
National Academy of Sciences of Belarus  
Kuprevich Street 7  
Minsk 220141 Belarus  
Tel: +375 0172 63 81 13; Fax: +375 0172 63 63 98  
Email: mihailov@ns.igs.ac.by

**BRAZIL**

- FZ M. F. Santiago  
Departamento de Física - UFC  
Campus do Pici - Cx. Postal 6030  
60455-760 Fortaleza-CE, Brazil  
Tel: +55 85 288 9913; Fax: +55 85 287 4138  
Email: marlucia@fisica.ufc.br
- CENA Luiz Carlos Ruiz Pessenda  
Radiocarbon Laboratory  
Centro de Energia Nuclear na Agricultura  
Universidade de São Paulo  
Avenida Centenario 303  
Caixa Postal 96 – CEP 13400-970  
Piracicaba, São Paulo, Brazil  
Tel: +55 19 429 4656; Fax: +55 19 429 4610  
Email: lcrpesse@pira.cena.usp.br

**CANADA**

- GSC Roger N. McNeely  
Radiocarbon Dating Laboratory  
Geological Survey of Canada  
601 Booth Street  
Ottawa, Ontario K1A 0E8 Canada  
Tel: +1 613 995 4241; Fax: +1 613 992 6653  
Email: mcneely@gsc.nrcan.gc.ca
- BGS Howard Melville  
Department of Earth Sciences  
Brock University  
St. Catharines, Ontario L2S 3A1 Canada  
Tel: +1 905 688 5550 ext. 3522; Fax: +1 905 682 9020  
Email: hmelvill@spartan.ac.BrockU.ca
- WAT Robert J. Drimmie  
Department of Earth Sciences  
Environmental Isotope Laboratory  
University of Waterloo  
Waterloo, Ontario N2L 3G1 Canada  
Tel: +1 519 888 4567 ext. 2580; Fax: +1 519 746 0183  
Email: rdrimmie@sciborg.uwaterloo.ca
- UQ Serge Occhietti and Pierre Pichet  
Radiocarbon Laboratory  
GEOTOP  
University of Québec at Montréal  
P.O. Box 8888, Succursale Centre Ville  
Montréal, Québec H3C 3P8 Canada  
Tel: +1 514 987 4080; Fax: +1 514 987 3635  
Email: occhietti.serge@uqam.ca

**CHINA**

- CG Yijian Chen and G. Peng  
Radiocarbon Laboratory  
Institute of Geology  
State Seismological Bureau  
P.O. Box 634  
Beijing 100029 China  
Tlx: 6347
- HL Yunzhang Yue  
Second Institute of Oceanography  
State Oceanic Administration  
P.O. Box 1207  
Hangzhou, Zhejiang 310012 China  
Tel: +86 571 8076924 ext. 328; Fax: +86 571 8071539  
Tlx: 35035 NBOHZ CN; Cable: 3152
- Dai Kaimei  
Department of Physics  
Nanjing University  
Nanjing 210093 China  
Tel: +86 25 3596746  
Fax: +86 25 307965; Tlx: 34151 PRCNU CN  
Email: postphys@nju.edu.cn
- XLLQ Zhou Weijian  
Institute of Earth Environment  
XiYing Lu 22-2  
Xi'an 710054, Shaanxi, China  
Tel: +86 29 5512264 (work); 86 29 5256429 (home); Fax: +86 29 5522566  
Email: weijian@loess.llqg.ac.cn; weijian@public.xa.sn.cn

**CROATIA**

Z Drs. Bogomil Obelić and Nada Horvatinčić  
Ruder Bošković Institute  
P.O.B. 1016, Bijenička 54  
10001 Zagreb, Croatia  
Tel: +385 1 4680 219; Fax: +385 1 4680 239  
Email: Bogomil.Obelic@irb.hr and Nada.Horvatincic@irb.hr  
WWW: <http://www.irb.hr/zef/c14-lab/>

**CZECH REPUBLIC**

CU Jan Šilar  
Department of Hydrogeology  
Charles University  
Albertov 6  
CZ-12843 Prague 2 Czech Republic  
Tel: +42 2 21952139 or +42 2 21951111  
Fax: +42 2 21952180  
Email: silar@prfdec.natur.cuni.cz

**DENMARK**

K Kaare Lund Rasmussen  
<sup>14</sup>C Dating Laboratory  
National Museum  
Ny Vestergade 11  
DK-1471 Copenhagen K, Denmark  
Tel: +45 33 47 3176; Fax: +45 33 47 3310  
Email: kaare.lund.rasmussen@natmus.dk

**ESTONIA**

Tln Enn Kaup  
Radiocarbon Laboratory  
Institute of Geology at Tallinn Technical University  
Estonia pst 7  
10143 Tallinn, Estonia  
Tel: +372 645 4679; Fax: +372 631 2074  
Email: kaup@gi.ee; rajamae@isogeo.gi.ee

Ta Volli Kalm and Arvi Liiva  
Radiocarbon Laboratory  
Institute of Geology  
University of Tartu  
Vanemuise St. 46  
51014 Tartu, Estonia  
Tel/Fax: +372 7 375 836  
Email: geol@ut.ee

**FINLAND**

Su Tuovi Kankainen  
Geological Survey of Finland  
P.O. Box 96  
FIN-02151 Espoo, Finland  
Tel: +358 205 50 11; Fax: +358 205 50 12  
Email: tuovi.kankainen@gsf.fi

Hel Högne Jungner  
Dating Laboratory  
P.O. Box 11, Snellmaninkatu 3  
FIN-00014 Helsinki University, Finland  
Tel: +358 9 191 23436; Fax: +358 9 191 23466  
Email: hogne.jungner@helsinki.fi

**FRANCE**

- Gif Michel Fontugne  
Centre des Faibles Radioactivités  
Laboratoire mixte CNRS-CEA  
F-91198 Gif sur Yvette, Cedex, France  
Tel: +33 1 69 82 35 25; Fax: +33 1 69 82 35 68  
Email: Michel.Fontugne@cfr.cnrs-gif.fr  
*and*  
Laboratoire Souterrain de Modane  
Laboratoire mixte IN2I 3-CNRS/DSM-CEA  
90, Rue Polset  
F-73500 Modane, France
- Ly Jacques Evin  
CDRC - Centre de Datation par le RadioCarbone  
Université Claude Bernard Lyon I, Batiment 217  
43, Boulevard du 11 Novembre 1918  
F-69622 Villeurbanne Cedex, France  
Tel: +33 472 44 82 57; Fax: +33 472 43 13 17  
Email: jacques.evin@cismun.univ-lyon1.fr

**GEORGIA**

- TB S. Pagava  
Radiocarbon Laboratory  
I.Javakishvili Tbilisi State University  
I.Chavchavadze av., 3  
Tbilisi 380008 Georgia  
Tel: +995 32 222105  
Email: spagava@access.sanet.ge

**GERMANY**

- Bln Jochen Görtsdorf  
Deutsches Archäologisches Institut  
Eurasien-Abteilung  
Postfach 330014  
14191 Berlin, Germany  
Tel: +49 01888 7711 339; Fax: +49 01888 7711 313  
Email: 14c@dainst.de
- Fra Reiner Protsch von Zieten  
Radiocarbon Laboratory  
J. W. Goethe-Universität  
Siesmayerstrasse 70  
60323 Frankfurt am Main, Germany  
Tel: +49 69 798 24764 / 24767; Fax: +49 69 798 24728
- Fr Detlef Hebert  
Institut für Angewandte Physik  
Technische Universität Bergakademie Freiberg  
09596 Freiberg/Sa., Germany  
Tel: +49 3731 39 2371 / 2594; Fax: +49 3731 39 4004  
Email: hebert@tu-freiberg.de
- HAM Peter Becker-Heidmann  
Institut für Bodenkunde  
Universität Hamburg  
Allende-Platz 2  
20146 Hamburg, Germany  
Tel: +49 40 42838 2003; Fax: +49 40 42838 2024  
Email: PBeckerH@Uni-Hamburg.de  
WWW: <http://www.geowiss.uni-hamburg.de/i-boden/tt14c.htm>

1400 *Laboratories*

- Hv M. A. Geyh  
Niedersächsisches Landesamt für Bodenforschung  
Postfach 510153  
30655 Hannover-Stillweg 2, Germany  
Tel: +49 511 643 2537; Fax: +49 511 643 2304  
Email: Mebus.Geyh@BGR.de
- Hd Bernd Kromer  
Heidelberger Akademie der Wissenschaften  
c/o Institut für Umweltphysik  
Universität Heidelberg  
Im Neuenheimer Feld 229  
69120 Heidelberg, Germany  
Tel: +49 6221 5 46 357; Fax: +49 6221 5 46 405  
Email: Bernd.Kromer@iup.uni-heidelberg.de
- KI Helmut Erlenkeuser and Pieter M. Grootes  
Leibniz-Labor  
Christian-Albrechts-Universität  
Max-Eyth-Str. 11  
24118 Kiel, Germany  
Tel: +49 431 880 3894 (P.M.G.); +49 431 880 3896 (H.E.)  
Fax: +49 431 880 3356  
Email: pgrootes@leibniz.uni-kiel.de; herlenkeuser@leibniz.uni-kiel.de  
WWW: <http://www.uni-kiel.de:8080/leibniz/indexe.htm>
- KN Bernhard Weninger  
Labor für <sup>14</sup>C-Datierung  
Institut für Ur-und Frühgeschichte  
Universität zu Köln  
Weyertal 125  
50923 Köln, Germany  
Tel: +49 221 470 2880 / 2881; Fax: +49 221 470 4892
- LZ Achim Hiller  
UFZ-Umweltforschungszentrum Leipzig-Halle GmbH  
Sektion Hydrogeologie  
Arbeitsgruppe Paläoklimatologie  
Theodor-Lieser-Strasse 4  
06120 Halle, Germany  
Tel: +49 345 5585 226; Fax: +49 345 5585 559  
Email: hiller@hdg.ufz.de

**GREECE**

- DEM Yannis Maniatis  
Laboratory of Archaeometry  
Institute of Materials Science  
National Centre for Scientific Research "Demokritos"  
153 10 Aghia Paraskevi Attikis  
Greece  
Tel: +30 1 6503389 or +30 1 6524821; Fax: +30 1 6519430  
Email: maniatis@ims.demokritos.gr  
WWW: <http://www.ims.demokritos.gr/archae>
- LIH Nicolaos Zouridakis  
Laboratory of Isotope Hydrology  
Institute of Physical Chemistry  
National Centre for Scientific Research "Demokritos"  
153 10 Aghia Paraskevi Attikis  
POB 60228  
Greece  
Tel: +30 1 6503969; Fax: +30 1 6511766  
Email: nizouri@cyclades.nrcps.ariadne-t.gr

**HUNGARY**

Deb Zsusa Szanto  
 Institute of Nuclear Research of the Hungarian Academy of Sciences  
 H-4026 Bem tér 18/c,  
 P.O. Box 51  
 H-4001 Debrecen, Hungary  
 Tel: +36 52 417266; Fax: +36 52 416181  
 Email: aszanto@moon.atomki.hu

**ICELAND**

Páll Theodórsson  
 Science Institute  
 University of Iceland  
 Dunhaga 3  
 IS-107 Reykjavík, Iceland  
 Tel: +354 525 4800; Fax: +354 552 8911  
 Email: pth@raunvis.hi.is

**INDIA**

PRLCH R. Bhushan, S. Krishnaswami and B. L. K. Somayajulu  
 Physical Research Laboratory  
 Chemistry Department  
 Oceanography and Climatic Studies Area  
 Navrangpura  
 Ahmedabad 380 009 India  
 Tel: +91 79 6462129; Fax: +91 79 6560502  
 Email: bhushan@prl.ernet.in; swami@prl.ernet.in; soma@prl.ernet.in

PRL M. G. Yadava  
 Radiocarbon Dating Research Unit  
 Oceanography and Climate Studies Area  
 Earth Sciences and Solar System Division  
 Physical Research Laboratory  
 Navrangpura  
 Ahmedabad 380 009 India  
 Tel: +91 79 462129; Fax: +91 79 6560502  
 Telegram: "Research"  
 Email: myadava@prl.ernet.in

JUBR S. D. Chatterjee, R. C. Sastri and Haradhan De  
 Biren Roy Research Laboratory for Archaeological Dating  
 Department of Physics  
 Jadavpur University  
 Calcutta 700 032 India  
 Tel: +91 33 473 4044; Fax: +91 33 473 4266; Tlx: 21-4160 (VC JU IN)

BS G. Rajagopalan  
 Radiocarbon Laboratory  
 Birbal Sahni Institute Palaeobotany  
 PO Box 106, 53 University Road  
 Lucknow 226 007 India  
 Tel: +91 522 32 4291; Fax: +91 522 37 4528, +91 522 38 1948  
 Email: bsip@bsip.sirneta.ernet.in

**IRELAND**

UCD Peter I. Mitchell and Edward McGee  
 UCD Radiocarbon Laboratory  
 Department of Experimental Physics  
 University College Dublin  
 Belfield, Dublin 4, Ireland  
 Tel: +353 1 706 2220 / 2225 / 2222  
 Fax: +353 1 283 7275  
 Email: Peter.Mitchell@ucd.ie; Edward.Mcgee@ucd.ie  
 WWW: <http://www.ucd.ie/~radphys>

**ISRAEL**

RT Israel Carmi, Elisabetta Boaretto  
 Department of Environmental Sciences and Energy Research  
 Weizmann Institute of Science  
 76100 Rehovot, Israel  
 Tel: +972 8 342544; Fax: +972 8 344124  
 Email: cicarmii@wis.weizmann.ac.il; elisa@wis.weizmann.ac.il

**ITALY**

ENEA Agostino Salomoni  
 ENEA Radiocarbon Laboratory  
 Via dei Colli, 16  
 I-40136 Bologna, Italy  
 Tel: +39 51 6098168; Fax: +39 51 6098187

R Salvatore Improta  
 Dipartimento di Fisica  
 Università "La Sapienza"  
 Piazzale Aldo Moro, 2  
 I-00185 Rome, Italy  
 Tel: +39 6 49914208  
 Fax: +39 6 4957697  
 Email: Salvatore.Improta@roma1.infn.it  
*and*  
 Giorgio Belluomini  
 Radiocarbon Laboratory  
 Istituto per le Tecnologie Applicate ai Beni Culturali  
 Consiglio Nazionale delle Ricerche  
 Area della Ricerca di Roma  
 CP 10 – Via Salaria Km 29,300  
 I-00016 Monterotondo St., Rome, Italy  
 Tel: +39 06 90672469; Fax: +39 06 90672373  
 Email: belluomi@mli.cnr.it

Rome Gilberto Calderoni  
 Department of Earth Sciences  
 University of Rome "La Sapienza"  
 Piazzale Aldo Moro, 5  
 I-00185 Rome, Italy  
 Tel: +39 6 499 14580; Fax: +39 6 499 14578  
 Email: calderoni@axrma.uniroma1.it

UD Piero Anichini, Valerio Barbina, per.ind. Ennio Virgili  
 Azienda Speciale Servizi Laboratorio e CRAD  
 Via Nazionale, 33  
 I-33040 Pradamano UD, Italy  
 Tel: +39 432671061; Fax: +39 432671176  
 Email: laboratorio@azservizi.cciaa-ud.xnet.it

**JAPAN**

KEEA Yoshimasa Takashima  
 Kyushu Environmental Evaluation Association  
 1-10-1, Matsukadai, Higashiku  
 Fukuoka 813-0004, Japan  
 Tel: +81 92 662 0410; Fax: +81 92 662 0990  
 Email: kawamura@keea.or.jp

Yasuo Nagashima  
 Tandem Accelerator Center  
 University of Tsukuba  
 Tennoudai 1-1-1, Tsukuba  
 Ibaraki, 305-8577, Japan  
 Tel: +81 298 53 2565; Fax: +81 298 53 4461  
 Email: nagashima@tac.tsukuba.ac.jp  
<http://www.tac.tsukuba.ac.jp> (in Japanese)



- KSU Osamu Yamada  
Faculty of Science  
Kyoto Sangyo University  
Kita-ku, Kyoto 603 Japan
- OR Setsuko Shibata  
Research Center of Radioisotopes  
Research Institute for Advanced Science and Technology  
University of Osaka Prefecture  
1-2, Gakuen-cho, Sakai, Japan  
Tel: +81 722 36 2221; Fax: +81 722 54 9938  
Email: shibata@riast.osakafu-u.ac.jp
- GaK Kunihiro Kigoshi  
Radiocarbon Laboratory  
Gakushuin University  
Mejiro Toshima-ku, 1-5-1, Faculty of Science  
Tokyo 171, Japan  
Tel: +81 3 3986 0221 ext. 6482; Fax: +81 3 5992 1029  
Email: kunihiro.kigoshi@gakushuin.ac.jp
- PAL Shigemoto Tokunaga  
Radiocarbon Laboratory  
Palyonosurvey Co.  
Nissan Edobashi Bld.  
1-10-5 Honcho, Nihonbashi  
Chuoku, Tokyo, Japan  
Tel (office): +81 3 3241 4566; (lab) +81 274 42 8129  
Fax: +81 3 3241 4597  
Email: palynoa@blue.ocn.ne.jp
- TK Kunio Yoshida  
C-14 Dating Laboratory  
The University Museum  
The University of Tokyo  
7-3-1 Hongo, Bunkyo-ku  
Tokyo 113 Japan  
Tel: +81 3 3812 2111  
Fax: +81 3 3814 4291  
Email: gara@um.u-tokyo.ac.jp
- NU Kunio Omoto  
Radiocarbon Dating Laboratory  
Department of Geography  
College of Humanities and Science  
Nihon University  
25-40, 3 Chome, Sakurajosui  
Setagaya-ku, Tokyo 156 Japan  
Tel: +81 35317 9273 or +81 33303 1691  
Fax: +81 35317 9429 or +81 33303 9899  
Email: omoto@chs.nihon-u.ac.jp
- JGS Hajime Kayanne  
Department of Geography  
University of Tokyo  
Mongu 113-0033, Tokyo, Japan  
Tel: +81 3-5841-4573  
Fax: +81 3-3814-6358  
kayanne@geogr.s.u-tokyo.ac.jp
- PLD Hideki Yamagata  
Paleo Labo Co., Ltd.  
63, Shima 5-chome Oguma-cho  
Hashima, Gifu 501-6264 Japan  
Email: pal@usiwakamaru.or.jp

**KOREA**

Jung Sun Ahn  
Advanced Atomic Energy Research Institute  
150, Duk-Jin Dong, Seo-Ku  
Daejeon, Chung Nam, Korea

KCP Hyung Tae Kang and Kyung Yim Nah  
Archaeological Studies Division  
National Cultural Property Research Institute  
1-57 Sejongno Chongno-gu  
Seoul, Korea 110 050  
Tel: +82 2 735 5281 ext. 323; Fax: +82 2 735 6889  
Email: vvyckht1@chollian.net

**LATVIA**

Riga V. S. Veksler and A. A. Kristin  
Institute of Science - Application Research  
Riga 50 Merkelya 11  
Riga 226 050, Latvia  
Tel: +371 7 212 501 *or* +371 7 213 636

**MONACO**

IAEA- Pavel Povinec (*see also* Slovakia)  
MEL International Atomic Energy Agency  
Marine Environmental Laboratory  
4 Quai Antoine 1<sup>er</sup>  
MC-98012 Monaco  
Tel: +377 979 77216; Fax: +377 979 77273  
Email: p.povinec@iaea.org

**THE NETHERLANDS**

GrN J. van der Plicht  
Centre for Isotope Research  
University of Groningen  
Nijenborgh 4  
NL-9747 AG Groningen, The Netherlands  
Tel: +31 50 3634760; Fax: +31 50 3634738  
Email: plicht@phys.rug.nl

**NEW ZEALAND**

Wk A. G. Hogg and T. F. G. Higham  
Radiocarbon Laboratory  
University of Waikato  
Private Bag  
Hamilton, New Zealand  
Tel: +64 7 838 4278; Fax: +64 7 838 4192  
Email: ahogg@waikato.ac.nz, *or* thigham@waikato.ac.nz  
<http://www.radiocarbon dating.com>

NZ Rodger Sparks  
Rafters Radiocarbon Laboratory  
Institute of Geological and Nuclear Sciences, Ltd.  
P.O. Box 31-312  
Lower Hutt, New Zealand  
Tel: +64 4 570 4671; Fax: +64 4 570 4657  
Email: R.Sparks@gns.cri.nz

**NORWAY**

T Steinar Gulliksen  
Radiological Dating Laboratory  
Norwegian University of Science and Technology  
N-7491 Trondheim, Norway  
Tel: +47 73 593310; Fax: +47 73 593383  
Email: Steinar.Gulliksen@vm.ntnu.no

**POLAND**

- Gd Anna Pazdur and Tomasz Goslar  
Radiocarbon Laboratory  
Silesian University of Technology  
Institute of Physics  
Krzywoustego 2  
PL-44-100 Gliwice, Poland  
Tel: +48 32 2372254; Fax: +48 32 2372488  
Email: pazdur@zeus.polsl.gliwice.pl
- KR Tadeusz Kuc  
Krakow Radiocarbon Laboratory  
Environmental Physics Department  
University of Mining and Metallurgy  
PL-30-059 Krakow, Poland  
Tel: +48 12 6172979 or 6333740; Fax: +48 12 6340010  
Tlx: 0322203 agh pl  
Email: kuc@novell.ftj.agh.edu.pl
- LOD Paweł Trzeciak and Ireneusz Borowiec  
Radiochemical Laboratory  
Archaeological and Ethnographical Museum in Łódź  
Pl. Wolności 14  
PL-91-415 Łódź, Poland  
Tel: +48 42 6328440 or +48 42 6334307  
Fax: +48 42 6329714  
Email: jotmol@krysia.uni.lodz.pl

**PORTUGAL**

- Sac A. M. Monge Soares  
Laboratório de Isótopos Ambientais  
Instituto Tecnológico e Nuclear  
Estrada Nacional 10  
P-2686 Sacavém Codex, Portugal  
Tel: +351 1 9550021; Fax: +351 1 9441455  
Email: amsoares@itn1.itn.pt

**REPUBLIC OF CHINA**

- NTU Tsung-Kwei Liu  
Department of Geology  
National Taiwan University  
245 Choushan Road  
Taipei, Taiwan, Republic of China  
Tel/Fax: +886 2 3657380  
Email: liutk@ccms.ntu.edu.tw

**RUSSIA**

- MAG Anatoly V. Lozhkin  
Quaternary Geology and Geochronology Laboratory  
Northeast Interdisciplinary Scientific Research Institute  
Russian Academy of Sciences, Far East Branch  
16 Portovaya St  
Magadan 685000 Russia  
Email: lozhkin@neisri.magadan.su
- GIN L. D. Sulerzhitsky  
Geological Institute  
Russian Academy of Sciences  
Pyzhevsky 7  
Moscow 109017 Russia  
Tel: +7 095 230 8136  
Email: suler@geo.tv-sign.ru, suler@ginran.msk.su

1406 *Laboratories*

- IEMAE L. Dinesman  
Institute of Ecology and Evolution  
Russian Academy of Sciences  
Leninsky Prospect 33  
Moscow 117071 Russia  
Fax: +7 095 954 5534  
Email: sevin@sovamsu.sovusa.com
- IGAN O. A. Chichagova  
Institute of Geography  
Russian Academy of Sciences  
Staromonetnyi 29  
Moscow 109017 Russia  
Tel: +7 095 230 8366; Fax: +7 095 959 0033  
Email: ochichag@mtu-net.ru
- IORAN V. Kuptsov, Chief of Isotope Group  
P.P. Shirshov Institute of Oceanology  
Russian Academy of Sciences  
Nakhimovsky Prospekt, 23  
Moscow 117851 Russia  
Fax: +7 095 1245983
- IWP Yu. A. Karpytchev  
Isotope Laboratory  
Institute of Water Problems  
Russian Academy of Sciences  
13/3 Sadovo-Tschernogryazskaya  
Moscow 103064 Russia  
Tel: +7 095 208 5471
- MSU P. A. Kaplin and O. B. Parunin  
Laboratory of Recent Sediments and Pleistocene Paleogeography  
Moscow State University  
Vorobyovy Gory  
Moscow 119899 Russia  
Email: g1706@mail.ru
- SOAN L. Orlova  
United Institute of Geology, Geophysics and Minerology (UIGGM SB RAS)  
Universitetsky pr. 3  
630090 Novosibirsk 90 Russia  
Tel: +7 3832 352 654; +7 3832 357 363; Fax: +7 3832 352 692  
Email: vitaly@uiggm.nsc.ru; Tlx: 133 123 KORA SU
- IVAN O. A. Braitseva, S. N. Litasova  
I. V. Melekestev and V. N. Ponomareva  
Institute of Volcanology  
Bul Piipa 9  
Petropavlovsk-Kamchatsky 683006 Russia  
Tel: +7 5 91 94
- LE Ganna Zaitseva  
Institute of the History of Material Culture  
Russian Academy of Sciences  
Dvortsovaya Naberezhnaya, 18  
191186 St. Petersburg, Russia  
Tel: +7 812 311 8156; Fax: +7 812 311 6271  
Email: ganna@mail.wplus.net
- LU Kh. A. Arslanov  
Geographical Research Institute  
St. Petersburg State University  
Sredniy Prospekt 41  
St. Petersburg 193004 Russia  
Tel/Fax: +7 812 218 7904  
Email: kozyrev@mail.nevalink.ru

**SLOVAKIA**

Ba Pavel Povinec (*see also* Monaco)  
 Department of Nuclear Physics  
 Comenius University  
 Mlynská dolina F1  
 842 15 Bratislava, Slovakia  
 Fax: +42 7 725882

**SOUTH AFRICA**

Pta S. Woodborne  
 Quaternary Research Dating Unit (QUADRU)  
 c/o Enviromentek, CSIR  
 P.O. Box 395  
 0001 Pretoria, South Africa  
 Tel: +27 12 841 3380; Fax: +27 12 349 1170  
 Email: swoodbor@CSIR.co.za

**SPAIN**

UBAR Dr. Joan S. Mestres and Prof. Gemma Rauret  
 Laboratori de Datació per Radiocarboni  
 Departament de Química, 3a. Planta  
 Universitat de Barcelona  
 C/. Martí i Franquès, 1-11/Avda. Diagonal, 647  
 08028 Barcelona, Spain  
 Tel: +34 3 403 4688; Fax: +34 3 402 1233  
 Email: jmestres@d3.ub.es

UGRA M. Purificación Sánchez and Elena Villafranca  
 Laboratorio de Datación por C-14  
 Centro de Instrumentación Científica  
 Campus Fuentenueva, Ed. Mecenaz  
 Universidad de Granada  
 E-18071 Granada, Spain  
 Tel: +34 58 244229; Fax: +34 58 243391  
 Email: mpsansan@goliat.urg.es and jlazuen@goliat.urg.es

CSIC Fernán Alonso and Antonio Rubinos  
 Geochronology Laboratory  
 Instituto de Química-Física Rocasolano - CSIC  
 Serrano, 119  
 28006 Madrid, Spain  
 Phone: +34 91 561 9400  
 Fax: +34 91 564 2431  
 Email: f.alonso@iqfr.csic.es or rubinos@iqfr.csic.es

**SWEDEN**

Lu Göran Skog  
 Radiocarbon Dating Laboratory  
 University of Lund  
 Tornavägen 13  
 SE-223 63 Lund,  
 Tel: +46 46 222 7885; Fax: +46 46 222 4830  
 Email: Goran.Skog@c14lab.lu.se

U Ingrid U. Olsson  
 Department of Physics  
 Uppsala University  
 Box 530  
 SE-751 21 Uppsala, Sweden  
 Tel: +46 18 4713571; Fax: +46 18 4713524  
 Email: ingrid.olsson@fysik.uu.se

**SWITZERLAND**

B Thomas Stocker  
 Climate and Environmental Physics  
 Physics Institute, Sidlerstrasse 5  
 CH-3012 Bern, Switzerland  
 Tel: +41 31 631 44 64; Fax: +41 31 631 44 05  
 Email: stocker@climate.unibe.ch  
<http://www.climate.unibe.ch>

**TURKEY**

METU Mustafa Özbakan  
 Radiocarbon Dating Laboratory  
 Middle East Technical University, Department of Physics  
 06531 Ankara, Turkey  
 Tel: +90 312 210 32 76; Fax: +90 312 210 12 81  
 Email: ozbakan@metu.edu.tr

**UKRAINE**

Ki Nikolai N. Kovalyukh and Vadim V. Skripkin  
 National Academy of Sciences and Ministry of Extraordinary Situation of Ukraine  
 State Scientific Centre of Environmental Radiogeochimistry  
 Kyiv Radiocarbon Laboratory  
 Palladin 34  
 Kyiv-142  
 252680 Ukraine  
 Tel/Fax: +38 0 44 444 0060  
 Fax: +38 0 44 444 1465  
 Email: kyiv14c@radgeo.freenet.kiev.ua

URCRM Michael Buzinny  
 Ukrainian Research Center for Radiation Medicine  
 Academy of Medical Sciences of Ukraine  
 04050, Melnikova str. 53  
 Kiev, Ukraine  
 Tel: +380 44 2445874; Fax: +380 44 2137202  
 Email: buzinny@bigfoot.com; buzinny@hotmail.com; <http://bigfoot.com/~buzinny>

**UNITED KINGDOM**

Birm R. E. G. Williams  
 Department of Geological Sciences  
 P.O. Box 363  
 University of Birmingham  
 Birmingham B15 2TT England

BM Janet Ambers  
 Department of Scientific Research  
 The British Museum  
 London WC1B 3DG England  
 Tel: +44 207 323 8332; Fax: +44 207 323 8276  
 Email: Jammers@thebritishmuseum.ac.uk

Q Roy Switsur  
 Cambridge Radiocarbon Dating Research Laboratory  
 Environmental Sciences Research Centre  
 East Road  
 Cambridge CB1 1PT England  
 Tel: +44 1223 363271 x2594  
 Email: vrs1@cam.ac.uk

RCD R. L. Otlet / A. J. Walker  
 RCD – Radiocarbon Dating  
 The Old Stables  
 East Lockinge, Wantage  
 Oxon OX12 8QY England  
 Tel/Fax: +44 1235 833667

- UB Gerry McCormac  
Radiocarbon Dating Laboratory  
School of Archaeology and Palaeoecology  
The Queen's University of Belfast  
Belfast BT7 1NN Northern Ireland  
Tel: +44 2890 335141; Fax: +44 2890 315779  
Email: f.mccormac@qub.ac.uk  
http://www.qub.ac.uk/arcpal
- GU G. T. Cook  
SURRC Radiocarbon Dating Laboratory  
Scottish Universities Research & Reactor Centre  
Scottish Enterprise Technology Park  
East Kilbride G75 0QF Scotland  
Tel: +44 13552 23332 or +44 13552 70136; Fax: +44 13552 29898  
Email: g.cook@surrcl.gla.ac.uk
- SRR Professor A. E. Fallick  
NERC Radiocarbon Laboratory  
Scottish Enterprise Technology Park  
Rankine Avenue  
East Kilbride, Glasgow G75 0QF Scotland  
Tel: +44 1355 260037; Fax: +44 1355 229829  
Email: radiocarbon@nercrl.gla.ac.uk  
http://www.gla.ac.uk/nercrl
- E. M. Scott  
Department of Statistics  
University Gardens  
University of Glasgow  
Glasgow, G12 8QW, Scotland  
Tel: +44 141 330 5125; Fax: +44 141 330 4814  
Email: marian@stats.gla.ac.uk
- SWAN Quentin Dresser  
Department of Geography  
University of Wales, Swansea  
Singleton Park, Swansea  
West Glamorgan SA2 8PP Wales  
Tel: +44 1792 295148; Fax: +44 1792 295955  
Email: P.Q.Dresser@swansea.ac.uk

**UNITED STATES**

- A Austin Long  
Laboratory of Isotope Geochemistry  
Geosciences Department  
The University of Arizona  
Tucson, Arizona 85721 USA  
Tel: +1 520 621 8888; Fax: +1 520 621 2672  
Email: along@geo.arizona.edu
- UCI Ellen Druffel and Sheila Griffin  
Radiocarbon Laboratory  
Department of Earth System Science  
University of California, Irvine  
PSRF 207  
Irvine, California 92697-3100 USA  
Tel (Druffel/office): +1 949 824 2116  
Fax: +1 949 824 3256; Email edruffel@uci.edu
- UCLA Rainer Berger  
Institute of Geophysics and Planetary Physics  
University of California  
Los Angeles, California 90024 USA  
Tel: +1 310 825 4169; Fax: +1 310 206 3051

1410 *Laboratories*

- UCR R. E. Taylor  
Radiocarbon Laboratory  
Department of Anthropology  
Institute of Geophysics and Planetary Physics  
University of California, Riverside  
Riverside, California 92512 USA  
Tel: +1 909 787 5521; Fax: +1 909 787 5409  
Email: retaylor@citrus.ucr.edu
- Beta M. A. Tamers and D. G. Hood  
Beta Analytic Inc.  
4985 SW 74 Court  
Miami, Florida 33155 USA  
Tel: +1 305 667 5167; Fax: +1 305 663 0964  
Email: beta@radiocarbon.com
- UGA John E. Noakes  
Center for Applied Isotope Studies  
The University of Georgia  
120 Riverbend Road  
Athens, Georgia 30602-4702 USA  
Tel: +1 706 542 1395; Fax: +1 706 542 6106
- ISGS Chao-li Liu and Hong Wang  
Isotope Geochemistry Section  
Illinois State Geological Survey  
615 E. Peabody Drive  
Urbana, Illinois 61820 USA  
Tel: +1 217 333 9083; Fax: +1 217 244 7004  
Email: jliu@geoserv.isgs.uiuc.edu
- NIST Lloyd A. Currie and George A. Klouda  
Atmospheric Chemistry Group  
National Institute of Standards and Technology
- Currie:*  
100 Bureau Dr., Stop 8370  
Gaithersburg, Maryland 20899-8370 USA  
Tel: +1 301 975 3919; Fax: +1 301 216-1134  
Email: Lloyd.Currie@nist.gov
- Klouda:*  
100 Bureau Dr., Stop 8372  
Gaithersburg, MD 20899-8372 USA  
Tel: +1 301 975 3931; Fax: +1 301 216-1134  
Email: George.Klouda@nist.gov
- GX Alexander Cherkinsky  
Geochron Laboratories, a division of  
Krueger Enterprises, Inc.  
711 Concord Avenue  
Cambridge, Massachusetts 02138 USA  
Tel: +1 617 876 3691; Fax: +1 617 661 0148  
Email: acherkinsky@geochronlabs.com
- I James Buckley  
Teledyne Brown Engineering Environmental Services  
50 Van Buren Avenue  
Westwood, New Jersey 07675 USA  
Tel: +1 201 664 7070; Fax: +1 201 664 5586  
Tlx: 134474



- QL Emeritus Minze Stuiver  
Quaternary Isotope Laboratory  
Box 351360  
Quaternary Research Center  
University of Washington  
Seattle, Washington 98195-1360 USA  
Tel: +1 206 685 1735; Fax: +1 206 543 3836  
Email: minze@u.washington.edu
- WIS David M. McJunkin  
Center for Climatic Research  
University of Wisconsin-Madison  
1225 W. Dayton Street  
Madison, Wisconsin 53706 USA  
Tel: +1 608 262 7328; Fax: +1 608 262 5964  
Email: mcj@facstaff.wisc.edu

**URUGUAY**

- URU Cristina Ures and Roberto Bracco  
Laboratorio de  $^{14}\text{C}$   
Facultad de Química  
Universidad de la República  
Gral. Flores 2124  
Montevideo, Uruguay  
Tel: +598 2 924 8571; Fax: +598 2 924 1906  
Email: radquim@bilbo.edu.uy

**II.  $^{14}\text{C}$  ACCELERATOR FACILITIES (AMS)****AUSTRALIA**

- ANSTO Ewan Lawson  
ANTARES AMS Centre  
Physics Division  
Australian Nuclear Science and Technology Organisation (ANSTO)  
New Illawarra Road  
Lucas Heights, NSW 2234 Australia  
Tel: +61 2 9717 3025; Fax: +61 2 9717 3257  
Email: eml@ansto.gov.au
- ANUA L. Keith Fifield  
Department of Nuclear Physics, RSPHysSE  
Australian National University  
Canberra, ACT 0200 Australia  
Tel: +61 2 6249 2095; Fax: +61 2 6249 0748  
Email: keith.fifield@anu.edu.au

**AUSTRIA**

- VERA Walter Kutschera  
VERA-Laboratorium  
Institut für Radiumforschung und Kernphysik  
Universität Wien  
Währingerstrasse 17  
A-1090 Vienna, Austria  
Tel: +43 1 4277 51700; Fax: +43 1 4277 9517  
Email: Walter.Kutschera@univie.ac.at

**CANADA**

TO Roelf P. Beukens  
 IsoTrace Laboratory  
 University of Toronto  
 60 St. George Street  
 Toronto, Ontario, Canada M5S 1A7  
 Tel: +1 416 978 4628; Fax: +1 416 978 4711  
 Email: isotrace.lab@utoronto.ca  
<http://www.physics.utoronto.ca/~isotrace>

**CHINA**

PKU Kun Li and Zhiyu Guo  
 Department of Technical Physics  
 Institute for Heavy Ion Physics  
 Peking University  
 Beijing 100871 China  
 Tel: +86 10 2501881 or +86 10 62501875  
 Fax: +86 10 2501873 or +86 10 62501875  
 Email: puihip@sun.ihep.ac.cn

**DENMARK**

AAR Jan Heinemeier and Niels Rud  
 AMS <sup>14</sup>C Dating Laboratory  
 Institute of Physics and Astronomy  
 University of Aarhus  
 DK-8000 Aarhus C, Denmark  
 Tel: +45 8942 3718; Fax: +45 8612 0740  
 Email: jh@dfi.aau.dk  
<http://www.c14.dk>

**FRANCE**

Gif A GDR Tandetron  
 Domaine du CNRS  
 Avenue de la Terrasse, Bat. 30  
 F-91198 Gif sur Yvette Cedex, France  
 Tel: +33 1 69 82 39 15; Fax: +33 1 69 82 36 70

Jean-Claude Duplessy, director  
 Centre des Faibles Radioactivités  
 Laboratoire mixte CNRS-CEA  
 F-91198 Gif sur Yvette Cedex, France  
 Tel: +33 1 69 82 35 26; Fax: +33 1 69 82 35 68  
 Email: Jean-Claude.Duplessy@cfr.cnrs-gif.fr

*AMS <sup>14</sup>C*  
 Maurice Arnold  
 Centre des Faibles Radioactivités (CEA-CNRS)  
 Tandetron  
 Avenue de la Terrasse  
 BP 1  
 F-91198 Gif sur Yvette Cedex, France  
 Tel: +33 1 69 82 35 63; Fax: +33 1 69 82 36 70  
 Email: Maurice.Arnold@cfr.cnrs-gif.fr

*AMS <sup>10</sup>Be, <sup>126</sup>Al, <sup>129</sup>I*  
 Françoise Yiou and Grant Raisbeck  
 CSNSM Bat. 108  
 F-91405 Campus Orsay Cedex, France  
 Tel: +33 1 69 15 52 64; Fax: +33 1 69 15 52 68  
 Email: yiou@csnsm.in2p3.fr; raisbeck@csnsm.in2p3.fr

**GERMANY**

Wolfgang Kretschmer  
 Physikalisches Institut  
 Universität Erlangen-Nürnberg  
 Erwin-Rommel-Str. 1  
 91054 Erlangen, Germany  
 Tel: +49 9131 857075; Fax: +49 9131 15249  
 Email: kretschmer@physik.uni-erlangen.de

J Gert Jaap van Klinken  
<sup>14</sup>C AMS Laboratory  
 Max-Planck-Institut für Biogeochemie  
 PO Box 10 01 64  
 07701 Jena, Germany  
 Tel: +49 3641 643708/3806; Fax: +49 3641 643710  
 Email: vklinken@bgc-jena.mpg.de  
<http://www.bgc-jena.mpg.de>

KIA Pieter M. Grootes, Marie-Josée Nadeau  
 Leibniz-Labor  
 Christian Albrechts Universität  
 Max-Eyth-Str. 11  
 24118 Kiel, Germany  
 Tel: +49 431 880 3894 (P.M.G.); +49 431 880 7373 (M.-J.N., M.S.)  
 Fax: +49 431 880 3356  
 Email: pgrootes@leibniz.uni-kiel.de (P.M.G.)  
<http://www.uni-kiel.de:8080/leibniz/indexe.htm>

**KOREA**

SNU Jong Chan Kim  
 The Inter-University Center for National Science Research Facility  
 Seoul National University  
 Seoul 151-742 Korea  
 Tel: +82 2 880 5774; Fax: +82 2 884 3002  
 Email: jckim@phy.snu.ac.kr  
<http://npl3.snu.ac.kr>

**JAPAN**

Takafumi Aramaki  
 Marine Research Laboratory  
 Japan Atomic Energy Research Institute (JAERI-MRL)  
 4-24 Minato-machi, Mutsu  
 Aomori, 035-0064, Japan  
 Tel: +81 175 28 2614; Fax: +81 175 22 4213  
 Email: mrl@popsvr.tokai.jaeri.go.jp  
 Webpage in preparation

TERRA Dr. Yasuyuki Shibata  
 Tandem Accelerator for Environmental Research and Radiocarbon Analysis  
 National Institute for Environmental Studies (NIES-TERRA)  
 Environmental Chemistry Division, National Institute for Environmental Studies  
 Onogawa 16-2, Tsukuba, Ibaraki 305-8506, Japan  
 Tel/Fax: +81-295-50-2565  
 Email: yshibata@nies.go.jp

NUTA Toshio Nakamura  
 Tandemtron AMS Laboratory  
 Dating and Materials Research Center  
 Nagoya University  
 Chikusa, Nagoya 464-8602 Japan  
 Tel: +81 52 789 2578; Fax: +81 52 789 3095  
 Email: g44466a@nucc.cc.nagoya-u.ac.jp

**THE NETHERLANDS**

- GrA J. van der Plicht  
Centre for Isotope Research  
University of Groningen  
Nijenborgh 4  
NL-9747 AG Groningen, The Netherlands  
Tel: +31 50 3634760; Fax: +31 50 3634738  
Email: plicht@phys.rug.nl
- UtC K. van der Borg  
R. J. van de Graaff Laboratorium  
Universiteit Utrecht  
Princetonplein 5  
P.O. Box 80.000  
3508 TA Utrecht, The Netherlands  
Tel: +31 30 53 2238 or +31 30 53 1492  
Fax: +31 30 2532532; Email: k.vanderborg@fys.ruu.nl

**NEW ZEALAND**

- NZA Rodger Sparks  
Rafter Radiocarbon Laboratory  
Institute of Geological and Nuclear Sciences, Ltd.  
P.O. Box 31-312  
Lower Hutt, New Zealand  
Tel: +64 4 570 4671; Fax: +64 4 570 4657  
Email: R.Sparks@gns.cri.nz  
<http://www.gns.cri.nz/atom/rafter/rafter.htm>

**POLAND**

- Poz Dr. Tomasz Goslar  
Pozan Radiocarbon Laboratory  
Foundation of the Adam Mickiewicz University  
ul. Rubiez 46  
61-62 Pozan, Poland  
Tel: +48 61 8279782  
Email: c14@radiocarbon.pl; <http://www.radiocarbon.pl>

**SWEDEN**

- LuA Göran Skog  
Radiocarbon Dating Laboratory  
University of Lund  
Tornavägen 13  
SE-223 63 Lund, Sweden  
Tel: +46 46 222 7885; Fax: +46 46 222 4830  
Email: Goran.Skog@C14lab.lu.se
- Ua Göran Possnert  
Tandem Laboratory  
University of Uppsala  
Box 533  
SE-751 21 Uppsala, Sweden  
Tel: +46 18 4713059; Fax: +46 18 555736  
Email: possnert@material.uu.se

**SWITZERLAND**

- ETH Georges Bonani  
ETH/AMS Facility  
Institut für Teilchenphysik  
Eidgenössische Technische Hochschule Hönggerberg  
CH-8093 Zürich, Switzerland  
Tel: +41 1 633 2041; Fax: +41 1 633 1067  
Email: bonani@particle.phys.ethz.ch

**UNITED KINGDOM**

OxA R. E. M. Hedges / C. Bronk Ramsey  
 Oxford Radiocarbon Accelerator Unit  
 Research Laboratory for Archaeology and the History of Art  
 Oxford University  
 6 Keble Road  
 Oxford OX1 3QJ England  
 Tel: +44 1865 273939; Fax: +44 1865 273932  
 Email: orau@rlaha.ox.ac.uk  
<http://www.rlaha.ox.ac.uk>

**UNITED STATES**

- AA D. J. Donahue, P. E. Damon and A. J. T. Jull  
 NSF-Arizona AMS Facility  
 PO Box 210081  
 The University of Arizona  
 Tucson, Arizona 85721-0081 USA  
 Tel: +1 520 621 6810; Fax: +1 520 621 9619  
 Email: ams@physics.arizona.edu  
<http://www.physics.arizona.edu/ams>
- CAMS John Knezovich  
 Center for Accelerator Mass Spectrometry  
 Lawrence Livermore National Laboratory  
 P.O. Box 808, L-397  
 Livermore, California 94550 USA  
 Tel: +1 510 422 4520; Fax: +1 510 423 7884  
 Email: knezovich1@llnl.gov
- NSRL Scott Lehman  
 INSTAAR Laboratory for AMS Radiocarbon Preparation and Research (NSRL)  
 CU-Boulder  
 1560 30th St.  
 Campus Box 450  
 Boulder, Colorado 80309-0450  
 Telephone: +1 303 492-0362 Fax: +1 303 492-6388  
 Email: Scott.Lehman@colorado.edu  
<http://www.Colorado.EDU/INSTAAR/RadiocarbonDatingLab>
- BETA M. A. Tamers and D. G. Hood  
 Beta Analytic, Inc.  
 Professional Radiocarbon Dating Services  
 4985 SW 74 Court  
 Miami, Florida 33155 USA  
 Tel: +1 305 667 5167; Fax: +1 305 663 0964  
 Email: beta@radiocarbon.com  
<http://www.radiocarbon.com/>
- BIOCAMS Ronald Hatfield and Darden Hood, directors  
 BIOCAMS International, Inc.  
 AMS for Art and Antiquities  
 13020 SW 120 Street  
 Miami, Florida 33186 USA  
 Tel: +1 305 992 3635; Fax: +1 305 631 3434  
 Email: director@biocams.com  
<http://www.biocams.com/>
- PL David Elmore  
 Purdue Rare Isotope Measurement Laboratory  
 Purdue University  
 1396 Physics Building  
 West Lafayette, Indiana 47907-1396 USA  
 Tel: +1 765 494 6516; Fax: +1 765 494 0706  
 Email: elmore@primelab.physics.purdue.edu  
<http://primelab.physics.purdue.edu>
- WHAMS John M. Hayes  
 National Ocean Sciences AMS Facility  
 Woods Hole Oceanographic Institution  
 McLean Laboratory, Mail Stop #8  
 Woods Hole, Massachusetts 02543-1539 USA  
 Tel: +1 508 289 2649; Fax: +1 508 457 2183  
 Email: shandwork@whoi.edu  
<http://nosams.whoi.edu>

## 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 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 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 AMS	The Netherlands
BC*	Brooklyn College	USA	GSC	Geological Survey	Canada
Beta	Beta Analytic	USA	GU	Scottish Universities Research & Reactor Centre (formerly Glasgow University)	Scotland
BGS	Brock University	Canada	GX	Geochron Laboratories	USA
Birm	Birmingham	UK	H*	Heidelberg	West Germany
Bln	Berlin	Germany	HAM	Hamburg	Germany
BM	British Museum	England	HAR*	Harwell	England
BONN*	Universität Bonn	Germany	Hd	Heidelberg	Germany
BS	Birbal Sahni Institute	India	Hel	Helsinki	Finland
C*	Chicago	USA	HIG*	Hawaii Inst. of Geophys.	USA
CAMS	Center for Accelerator Mass Spectrometry	USA	HL	Second Institute of Oceanography	China
CAR*	Univ. College, Cardiff	Wales	HNS*	Hasleton-Nuclear, Palo Alto, California	USA
CENA	Centro Energia Nuclear na Agricultura	Brazil	Hv	Hannover	Germany
CG	Institute of Geology	China	I	Teledyne Isotopes	USA
CH	Chemistry Laboratory	India	IAEA	International Atomic Energy Agency	Austria
CRCA	Cairo	Egypt	IAEA-MEL	Marine Environmental Laboratory	Monaco
CSIC	Geochronology Lab, IQFR-CSIC, Madrid	Spain	ICEN	Instituto Tecnológico e Nuclear	Portugal
CSM*	Cosmochemistry Lab. USSR Academy of Sciences	USSR	IEMAE	Institute of Evolutionary Morphology and Animal Ecology	Russia
CT*	Caltech, Calif. Inst. Tech.	USA	IGAN	Institute of Geography	Russia
CU	Charles University	Czech Republic	IGS*	Inst. of Geological Sci., Isotopes, Inc., Palo Alto	Sweden
D*	Dublin, Trinity College	Ireland	IOAN	Institute of Oceanography	Russia
Dak*	Univ. de Dakar	République du Sénégal	IORAN	Institute of Oceanology	Russia
DAL*	Dalhousie University	Canada	IRPA	Royal Institute of Cultural Heritage	Belgium
DE*	USGS, Denver	USA	ISGS*	Illinois State Geological Survey	USA
Deb	Debrecen	Hungary	IVAN	Institute of Volcanology	Ukraine
DEM	NCSR Demokritos	Greece	IVIC*	Caracas	Venezuela
DIC*	Dicar Corp and Dicarb Radioisotope Company	USA	IWP	Institute of Water Problems	Russia
DRI*	Desert Research Institute	USA			
ENEA	ENEA, Bologna	Italy			
ETH	ETH/AMS Facility	Switzerland			
F	Florence	Italy			
Fr	Freiberg	Germany			

\*Indicates laboratories that are closed, no longer measuring <sup>14</sup>C, or operating under a different code designation.

J	Max-Planck-Institut für Biogeochemie, Jena	Germany	NPL*	National Physical Laboratory, Middlesex	England
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	OBODY	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 Oxford, Mississippi	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	Poz	Pozan	Poland
LU	St. Petersburg State University	Russia	Pr*	Prague	Czechoslovakia
Lv*	Louvain-la-Neuve	Belgium	PSU*	Pennsylvania State Univ.	USA
Ly	University of Lyon	France	PKU	Peking University	China
LZ	Umweltforschungszentrum Leipzig-Halle	Germany	PL	Purdue Rare Isotope Measurement Laboratory	USA
M*	University of Michigan	USA	PRL	Physical Research Laboratory	India
Ma*	University of Winnipeg	Canada	Pta	Pretoria	South Africa
MAG	Quaternary Geology and Geochronology Laboratory	Russia	Q	Cambridge	England
MC*	Centre Scientifique de Monaco	Monaco	QL*	Quaternary Isotope Laboratory	USA
METU	Middle East Technical University	Turkey	QC*	Queens College	USA
ML*	Miami	USA	QU*	Centre de Recherches Minérales, Québec	Canada
Mo*	Verdanski Inst. of Geochemistry, Moscow	USSR	R	Rome	Italy
MOC*	Archaeological Institute, Czechoslovak Acad. of Sci.	Czechoslovakia	RCD	Radiocarbon Dating	England
MP*	Magnolia Petroleum	USA	RI*	Radiochemistry, Inc.	USA
MRRI*	Marine Resources Research Institute	USA	RIDDL*	Simon Fraser Univ.	Canada
MSU	Moscow	Russia	Riga	Institute of Science	Latvia
N	Nishina Memorial	Japan	RL*	Radiocarbon, Ltd.	USA
NIST	National Institute of Standards and Technology	USA	Rome	Department of Earth Sciences, Rome	Italy
			RT	Rehovot	Israel
			RU*	Rice University	USA
			S*	Saskatchewan	Canada

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