

PERSONAL INFORMATION

LEONARDO LANGONE



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Sex Male | Date of birth 10/08/1959 | Nationality Italian

PRESENT JOB

Director of Research at CNR

TITLE OF QUALIFICATION
AWARDED

Degree in Geology

WORK EXPERIENCE

2020-present	Director of Research @ CNR-ISP, Bologna
2019-2020	Acting Director of CNR-ISP, Mestre (Ve)
2010-2019	Director of Research @ CNR-ISMAR, Bologna
2002-2009	Senior Researcher @ CNR-ISMAR, Bologna
2001-2002	Junior Researcher @ CNR-ISMAR, Bologna
1988-2001	Early career scientist @ CNR-IGM, Bologna

EDUCATION AND TRAINING

1987	Qualification in the profession of Geologist
1986	CNR fellow @ CNR-IGM, Bologna
1984	Ms Degree in Geological Sciences (110/110, <i>cum laude</i>), University of Bologna

RESEARCH ACTIVITY

Research sectors

He is interested at estimating the rate of the aquatic processes involving sedimentary particles by using radioactive tracers and automatic sediment traps.

Particle dynamics is then applied to different research sectors linked to the effects of the climate change and human impact on marine and polar environments, such as:

- ✓ Long-term time-series of oceanographic parameters and particle fluxes acquired through underwater observing systems to monitor the effects of climate changes
- ✓ Biogeochemical cycles of carbon and biogenic silica in Southern Ocean, Fram Strait and Mediterranean Sea to check if the efficiency of the biological pump is decreasing;
- ✓ Nature, source and fate of sedimentary organic carbon on continental margins using elemental composition, stable isotopes and biomarkers;
- ✓ Late Quaternary paleoenvironmental reconstructions using biogenic components, major and minor elements, stable isotopes and radionuclides for the study of the natural or human-induced climate variability;
- ✓ Estimates of atmospheric CO₂ growth-rate by direct measurements in remote oceanic and polar regions to validate satellite observations;
- ✓ Role of cascading events of dense shelf waters in transferring particles, organic

matter and nutrients toward the deep sea benthic ecosystems, and how it is changing due to lesser dense water production and higher water column stratification;

- ✓ Geochronology of modern sediments via short-lived radionuclides for stratigraphic studies, mass balances, or pollution reconstruction in marine and lacustrine environments.

Scientific projects

- ✓ Participation with different role (PI, WP leader, action leader) to EU- or national projects in the Mediterranean (Euromarge-AS, MAST-II, Paliclas, Costa, EuroDELTA, Eurostrataform, Hermes, Sesame, Hermione, Perseus, Coconet come WP leader, Vector, MSFD, Ritmare), Antarctica (RossMize, Bioseso I e II, Baie, Ozono, Bottom water I & II, Rome, Holoferne, BedRose, Odyssea, Edistho, Beyond Epica) and Arctic (Hermione, Defrost, ARCA, Snow, Prepared, Burster, ARICE, Interact II and III);
- ✓ P.I. of projects funded by ONR (US-NAVY) and industry (Impresub Company, Projects Geotechnical Survey for Gendalo and Maha in Makassar Strait, Indonesia and Geotechnical Survey offshore Nile delta, Egypt, 2005-2007, 2011);
- ✓ Scientist in Charge of the project EC-PEOPLE SOMFlood (FP7-PEOPLE-2007, 2008-2011).

EDUCATIONAL ACTIVITY

2019-present

- ✓ Tutor of 6 PhD and 18 Ms thesis in Geological Sciences, Environmental Sciences, Biological Sciences and Natural Sciences at the Universities of Bologna, Ravenna, Rome, Siena;

2015-2019

- ✓ Component of the Teaching Board of PhD programme in Polar Sciences of the Ca' Foscari University of Venice, in partnership with the National Research Council - CNR (PhD Programme in cooperation with Research Institutions) and with the University of Milano-Bicocca;
- ✓ Component of the Teaching Board of PhD programme in "Environmental, geological and polar sciences and technologies" of the University of Siena

ACTIVITY IN MARINE AND POLAR AREAS

- ✓ Experience >30 years of oceanographic campaigns with 92 participations (18 as Chief Scientist) in the Mediterranean, Atlantic, Southern Ocean and Arctic ocean;
- ✓ Scientific coordinator of marine activities during the XXXI and XXXII Italian expeditions in Antarctica.

ORGANISATIONAL / MANAGERIAL SKILLS

- 2019-2020 Acting Director of Institute of Polar Sciences (CNR-ISP)
- 2020-present Deputy Representative CNR in the Scientific Committee of the I/B "Laura Bassi" in a OGS-CNR-ENEA joint-effort
- 2019-present CNR Representative in the Operational Technical Directorate (DTO) for the logistical management of the I/B "Laura Bassi" in a OGS-CNR-ENEA joint-effort
- 2018-present CNR Member of the PNRA Working Group for Large Field Facilities (GIC)
- 2018-present Member of the technical-scientific group for the implementation of the agreement between CNR-ENI_Arctic (Research Center "Aldo Pontremoli", Lecce)
- 2017-present Member of the Oceanographic Infrastructure Committee of CNR-UPGO
- 2015-2019 Alternate Delegate of Italy in SCOR _Scientific Committee on Oceanic Research
- 2015-2017 Coordinator of the CNR-ISMAR Working Group for the study of Human Impacts
- 2012-present Responsible of 3 oceanographic moorings in the South-Western Adriatic margin
- 2014-present Member of the CNR Working Group for the Arctic (WG coordinator from 2019)
- 2014-2016 Member of the President Committee of the AIOL (Associazione Italiana Oceanologia e Limnologia (AIOL)
- 2013-2017 Elected member of the CNR-ISMAR Scientific Committee

- 2009-2019 Manager of the CNR-ISMAR Laboratory of the Organic Matter Characterization
- 2007-2010 CNR-ISMAR Representative in CoNaGeM (COordinamento NAzionale per la GEofisica Marina)
- 2006-2009 Member of the President Committee of the AIOL (Associazione Italiana Oceanologia e Limnologia (AIOL))
- 2003-2010 Coordinator of the ISMAR-BO working group for the management of laboratories and large scientific infrastructures
- 2002-2009 Elected member of the CNR-ISMAR Scientific Committee

PERSONAL SKILLS

Mother tongue(s) Italian
English Understanding: B2; Speaking: B2; Writing: C1

SCIENTIFIC PRODUCTION

Bibliometrics

He is author or co-author of:

- ✓ 103 scientific papers published on ISI journals with Impact Factor
- ✓ ca. 60 scientific papers published on no-ISI journals
- ✓ 7 chapters of book
- ✓ ca. 30 technical reports and cruise reports

Citation number amounts to ca. 2750, with a Hirsch factor (h-factor) of 28 (source Scopus).

Editorial activity

- ✓ Associate Editor di Advances in Oceanography and Limnology
- ✓ Guest editor Rendiconti Lincei. Scienze Fisiche e Naturali (ISSN: 2037-4631), vol. 27, suppl. issue 1, September 2016, special issue. Environmental Changes in the Arctic: an Italian Perspective. David Cappelletti, Roberto Azzolini, Angelo Viola, Leonardo Langone, Stefano Ventura eds.
- ✓ Referee of journals Marine Geology, Scientific Report, Continental Shelf Research, Science of the Total Environment, Polar Research, Progress in Oceanography, Paleoceanography, Env. Pollution, J. Arid Environments, Chemistry and Ecology, AIOL, Biogeosciences...

Papers (last 10 years)

- Azzaro, M.; Aliani, S.; Maimone, G.; Decembrini, F.; Caroppo, C.; Giglio, F.; Langone, L.; Miserocchi, S.; Cosenza, A.; Azzaro, F.; Rappazzo, A. C.; Cabral, A. S.; Paranhos, R.; Mancuso, M.; La Ferla, R., 2021. Short-term dynamics of nutrients, planktonic abundances, and microbial respiratory activity in the Arctic Kongsfjorden (Svalbard, Norway). *Polar Biology* 44, 361-378, 10.1007/s00300-020-02798-w
- Capotondi, L., Bonomo, S., Budillon, G., Giordano, P., Langone, L., 2020. Living and dead benthic foraminiferal distribution in two areas of the Ross Sea (Antarctica). *Rendiconti Lincei*, in press
- Combi, T., Pintado-Herrera, M.G., Lara-Martín, P.A., Lopes-Rocha, M., Miserocchi, S., Langone, L., Guerra, R., 2020. Historical sedimentary deposition and flux of PAHs, PCBs and DDTs in sediment cores from the western Adriatic Sea. *Chemosphere*, 241, art. no. 125029
- Gilardoni, S., Tarozzi, L., Sandrini, S., Ielpo, P., Contini, D., Putaud, J.-P., Cavalli, F., Poluzzi, V., Bacco, D., Leonardi, C., Genga, A., Langone, L., Fuzzi, S., 2020. Reconstructing elemental carbon long-term trend in the Po Valley (Italy) from fog water samples. *Atmosphere* 11(6), 580
- Maselli, V., Normandeau, A., Nones, M., Tesi, T., Langone, L., Trincardi, F., Bohacs, K.M. 2020. Tidal modulation of river-flood deposits: How low can you go? *Geology* 48(7), 663-667
- Petranich, E., Terribili, L., Acquavita, A., Pavoni, E., Langone, L., Covelli, S., 2020. The Role of a Tidal Flat-Saltmarsh System as a Source-Sink of Mercury in a Contaminated Coastal Lagoon Environment (Northern Adriatic Sea). *Aquatic Geochemistry* 26(3), 245-267
- Tesi, T., Belt, S.T., Gariboldi, K., Muschitiello, F., Smik, L., Finocchiaro, F., Giglio, F., Colizza, E., Gazzurra, G., Giordano, P., Morigi, C., Capotondi, L., Nogarotto, A., Köseoğlu, D., Di Roberto, A., Gallerani, A., Langone, L., 2020. Resolving sea ice dynamics in the north-western Ross Sea during the last 2.6 ka: From seasonal to millennial timescales. *Quaternary Science Reviews*, 237, 106299
- Bensi, M.; Kovačević, V.; Langone, L.; Aliani, S.; Ursella, L.; Goszczko, I.; Soltwedel, T.; Skogseth, R.; Nilsen, F.; Deponte, D.; Mansutti, P.; Laterza, R.; Rebesco, M.; Rui, L.; Lucchi, R.G.; Wählin, A.; Viola, A.; Beszczynska-Möller, A.; Rubino, A., 2019. Deep Flow Variability Offshore South-West Svalbard (Fram Strait). *Water* 11, 683
- Conese, I., Fanelli, E., Miserocchi, S., Langone, L., 2019. Food web structure and trophodynamics of

- deep-sea plankton from the Bari Canyon and adjacent slope (Southern Adriatic, central Mediterranean Sea). *Progress in Oceanography*, 175, 92-104
- Capotondi, L., Bergami, C., Giglio, F., Langone, L., Ravaioli, M., 2018. Benthic foraminifera distribution in the Ross Sea (Antarctica) and its relationship to oceanography. *Bollettino della Società Paleontologica Italiana*, 57 (3), 187-202
- D'Angelo A., Giglio F., Miserocchi S., Sanchez-Vidal A., Aliani S., Tesi T., Viola A., Mazzola M., Langone L., 2018. Multi-year particle fluxes in Kongsfjorden, Svalbard. *Biogeosciences*, 15, 5343–5363, 2018
- Zoppini, A., Ademollo, N., Patrolecco, L., Langone, L., Lungarini, S., Dellisanti, W., Amalfitano, S., 2018. Distribution patterns of organic pollutants and microbial processes in marine sediments across a gradient of anthropogenic impact. *Environmental Pollution*, 242, 1860-1870
- Covelli, S., Petranich, E., Langone, L., Emili, A., Acquavita, A., 2017. Historical sedimentary trends of mercury and other trace elements from two saltmarshes of the Marano and Grado lagoon (northern Adriatic Sea). *Journal of Soils and Sediments*, 17 (7), pp. 1972-1985
- Lopes-Rocha, M., Langone, L., Miserocchi, S., Giordano, P., Guerra, R., 2017. Spatial patterns and temporal trends of trace metal mass budgets in the western Adriatic sediments (Mediterranean Sea). *Science of the Total Environment*, 599-600, 1022-1033
- Lopes-Rocha, M., Langone, L., Miserocchi, S., Giordano, P., Guerra, R., 2017. Detecting long-term temporal trends in sediment-bound metals in the western Adriatic (Mediterranean Sea). *Marine Pollution Bulletin*, 124 (1), pp. 270-285
- Ravaioli M., C. Bergami, L. Langone, G. Bortoluzzi, F. Raich, C. Cantoni, M. Bastianini, A. Pugnetti, M. Marini, P. Penna, E. Paschini, G. Stanghellini, S. Miserocchi, A. Vetrano, M. Borghini, K. Schroeder, R. D'Adamo, A. Specchiulli, F. Riminucci, V. Cardin, M. Lipizer, A. Crise, M. Bensi, G. Siena, C. Fanara, R. Bozzano, S. Pensieri, A. Bergamasco, E. Crisafi, A. Di Sarra, 2017. The RITMARE Italian Fixed-point Observatory Network (IFON) for marine environmental monitoring: a case study. *Journal of Operational Oceanography, Special Issue on Operational oceanography, innovative technologies and applications*, Guest Editors: A. Ribotti, M. Tonani. DOI: 10.1080/1755876X.2015.1114806
- Rivaro, P., Ianni, C., Langone, L., Ori, C., Aulicino, G., Cotroneo, Y., Saggiomo, M., Mangoni, O., 2017. Physical and biological forcing of mesoscale variability in the carbonate system of the Ross Sea (Antarctica) during summer 2014. *Journal of Marine Systems*, 166, 144-158
- Tesi, T., Ascoli, A., Minisini, D., Maselli, V., Dalla Valle, G., Gamberi, F., Langone, L., Cattaneo, A., Montagna, P., Trincardi, F., 2017. Large-scale response of the Eastern Mediterranean thermohaline circulation to African monsoon intensification during sapropel S1 formation. *Quaternary Science Reviews*, 159, 139-154
- Aliani, S., Sciascia, R., Conese, I., D'Angelo, A., Del Bianco, F., Giglio, F., Langone, L., Miserocchi, S., 2016. Characterization of seawater properties and ocean heat content in Kongsfjorden, Svalbard Archipelago. *Rendiconti Lincei*, 27, 155-162
- Cantoni, C.; Luchetta, A.; Chiggiato, J.; Cozzi S.; Schroeder K.; Langone L., 2016. Dense water flow and carbonate system in the southern Adriatic: a focus on the 2012 event. *Marine Geology* 375, 15-27, special issue "Cascading in the Adriatic", <http://dx.doi.org/10.1016/j.margeo.2015.08.013>
- Cappelletti, D., Azzolini, R., Langone, L., Ventura, S., Viola, A., Aliani, S., Vitale, V., Brugnoli, E., 2016. Environmental changes in the Arctic: an Italian perspective. *Rendiconti Lincei*, 27, S1-S6
- Carniel, S., Trincardi, F., Benetazzo, A., Bergamasco, A., Boldrin, A., Falcieri, F.M., Langone, L., Sclavo, M., Bonaldo, D., 2016. Off-shelf Fluxes Across the Southern Adriatic Margin: Factors Controlling Dense Water-driven Transport Phenomena. *Marine Geology* 375, 44-63, special issue "Cascading in the Adriatic", <http://dx.doi.org/10.1006/j.margeo.2015.08.016>
- Chiggiato, J., Bergamasco, A., Borghini, M., Falcieri, F.M., Falco, P., Langone, L., Miserocchi, S., Russo, A., Schroeder, K., 2016. Dense-water bottom currents in the Southern Adriatic Sea in spring 2012. *Marine Geology* 375, 134-145, special issue "Cascading in the Adriatic", <http://dx.doi.org/10.1016/j.margeo.2015.09.005>
- Combi, T., Miserocchi, S., Langone, L., Guerra, R., 2016. Polychlorinated biphenyls (PCBs) in sediments from the western Adriatic Sea: Sources, historical trends and inventories. *Science of the Total Environment* 562, 580-587
- Combi, T., Pintado-Herrera, M.G., Lara-Martin, P.A., Miserocchi, S., Langone, L., Guerra, R., 2016. Distribution and fate of legacy and emerging contaminants along the Adriatic Sea: A comparative study. *Environmental Pollution*, 218, 1055-1064
- Incarbona, A., Martrat, B., Mortyn, P.G., Sprovieri, M., Ziveri, P., Gogou, A., Jordà, G., Xoplaki, E., Luterbacher, J., Langone, L., Marino, G., Rodríguez-Sanz, L., Triantaphyllou, M., Di Stefano, E., Grimalt, J.O., Tranchida, G., Sprovieri, R., Mazzola, S., 2016. Mediterranean circulation perturbations over the last five centuries: Relevance to past Eastern Mediterranean Transient-type events. *Scientific Reports*, 6, art. no. 29623

- Langone, L.; Conese, I.; Miserocchi, S.; Boldrin, A.; Bonaldo, D.; Carniel, S.; Chiggiato, J.; Turchetto, M.; Borghini, M.; Tesi T., 2016. Dynamics of particles along the western margin of the Southern Adriatic: processes involved in transferring particulate matter to the deep basin. *Marine Geology* 375, 28-43, special issue "Cascading in the Adriatic", doi: 10.1016/j.margeo.2015.09.004
- Crise A. et al., 2015. A MSFD complementary approach for the assessment of pressures, knowledge and data gaps in Southern European Seas: The PERSEUS experience. *Marine Pollution Bulletin* 95, 1, 28-39; DOI: 10.1016/j.marpolbul.2015.03.024
- Sanchez-Vidal, A., Veres, O., Langone, L., Ferré, B., Calafat, A., Canals, M., Durrieu de Madron, X., Heussner, S., Mienert, J., Grimalt, J.O., Pusceddu, A., Danovaro, R., 2015. Particle sources and downward fluxes in the eastern Fram strait under the influence of the west Spitsbergen current. *Deep-Sea Research Part I* 103, 49-63.
- Catalano G., M. Azzaro, M. Bastianini, L. G. Bellucci, F. Bernardi Aubry, F. Bianchi, M. Burca, C. Cantoni, G. Caruso, R. Casotti, S. Cozzi, P. Del Negro, S. Fonda Umani, M. Giani, S. Giuliani, V. Kovacevic, R. La Ferla, L. Langone, A. Luchetta, L. S. Monticelli, S. Piacentino, A. Pugnetti, M. Ravaioli, G. Socal, F. Spagnoli and L. Ursella, 2014. The Carbon budget in the northern Adriatic Sea, a winter case study. *Journal of Geophysical Research: Biogeosciences* (Impact Factor: 3.02). 07/2014; DOI: 10.1002/2013JG002559
- Chiarini F., Capotondi L., Dunbar R.B., Giglio F., Mammi I., Mucciarone D.A., Ravaioli M., Tesi T., Langone L., 2013. A revised sediment trap splitting procedure for samples collected in the Antarctic sea. *Methods in Oceanography* 8, 13-22
- Longinelli A., L. Langone, C. Ori, F. Giglio, E. Selmo, M. Sgavetti, 2013. Atmospheric CO₂ concentrations and $\delta^{13}\text{C}$ values during 2011-2012 voyage: Mediterranean, Atlantic Ocean, southern Indian Ocean and New Zealand to Antarctica. *Atmospheric Environment* 77, 919-926
- Romano S., Langone L., Frignani M., Albertazzi S., Focaccia P., Bellucci L.G., Ravaioli M., 2013. Historical pattern and mass balance of trace metals in sediments of the northwestern Adriatic Sea Shelf. *Marine Pollution Bulletin* 76 (2013) 32-41
- Tesi T., L. Langone, M. Giani, M. Ravaioli, S. Miserocchi, 2013. Source, diagenesis, and fluxes of particulate organic carbon along the western Adriatic Sea (Mediterranean Sea). *Marine Geology* 337, 156-170
- Tesi T., S. Miserocchi, F. Acri, L. Langone, A. Boldrin, J.A. Hatten, S. Albertazzi, 2013. Flood-driven transport of sediment, particulate organic matter, and nutrients from the Po River watershed to the Mediterranean Sea. *Journal of Hydrology* 498, 144-152.
- Covelli S., L. Langone, A. Acquavita, R. Piani, A. Emili, 2012. Historical flux of mercury associated with mining and industrial sources in the Marano and Grado Lagoon (northern Adriatic Sea). *Estuarine, Coastal and Shelf Science* 113, 7-19
- Longinelli A., F. Giglio, L. Langone, L. Moggio, C. Ori, E. Selmo, M. Sgavetti, 2012. Atmospheric CO₂ concentrations and $\delta^{13}\text{C}$ values between New Zealand and Antarctica, 1998 to 2010: some puzzling results. *Tellus B* 64 (1), 17472
- Rubino A., Romanenkov D., Zanchettin D., Cardin V., Hainbucher D., Bensi M., Boldrin A., Langone L., Miserocchi S., Turchetto M., 2012. On the descending of dense water on a complex canyon system in the southern Adriatic basin. *Continental Shelf Research* 44, 20-29
- Socal G., A. Boldrin, A. Luchetta, F. Bernardi Aubry, C. Cantoni, F. Cerino, L. Langone, S. Miserocchi, C. Totti, M. Turchetto, 2012. Comunità fitoplanctoniche e sistema carbonato nell'Adriatico Meridionale. *Biol. Mar. Mediterr.* 19 (1), 20-23
- Tesi T., Langone L., Ravaioli M., Giglio F., Capotondi L., 2012. Particulate export and lateral advection in the Antarctic Polar Front (Southern Pacific Ocean): one-year mooring deployment. *Journal of Marine Systems* 105, 70-81
- Turchetto M., Boldrin A., Langone L., Miserocchi S., 2012. Physical and biogeochemical processes controlling particle fluxes variability and carbon export in the Southern Adriatic. *Continental Shelf Research* 44, 72-82
- Barsanti M., Delbono I., Schirone A., Langone L., Miserocchi S., Salvi S., Delfanti R., 2011. Sediment reworking rates in deep sediments of the Mediterranean Sea, *The Science of the Total Environment* 409, 2959-2970
- Giuliani S., Capotondi L., Maffioli P., Langone L., Giglio F., Yam R., Frignani M., Ravaioli M., 2011. Paleoenvironmental changes in the Pacific sector of the Southern Ocean (Antarctica) during the past 2.6 Ma. *Global and Planetary Change* 77, 34-48
- Longinelli A., Langone L., Ori C., Selmo E., 2011. Atmospheric CO₂ concentrations and $\delta^{13}\text{C}$ over Western and Eastern Mediterranean basins during summer 2007. *Atmospheric Environment* 45, 5514-5522.
- Tesi T., Miserocchi S., Goñi MA, Turchetto M., Langone L., De Lazzari A., Albertazzi S., Correggiari A., 2011. Influence of tributary channels on sediment and organic matter supply in event-dominated coastal margins: the Po prodelta as a study case. *Biogeosciences* 8, 365-385.
- Catalano G., Budillon G., La Ferla R., Povero P., Ravaioli M., Saggiorno V., Accornero A., Azzaro M., Carrada G.C., Giglio F., Langone L., Mangoni O., Misic C., Modigh M., 2010. Carbon and nutrient fluxes in continental margins. A global synthesis. In: *The Ross Sea*. Springer ed. pp. 303 - 318.

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- Longinelli A, Lenaz R, Ori C, Langone L, Selmo EM, Giglio F, 2010. Decadal changes in atmospheric CO₂ concentration and delta C-13 over two seas and two oceans: Italy to New Zealand. *Atmospheric Environment* 44, 4303-4311.
- Tesi T, Goñi MA, Langone L, Puig P, Canals M, Nittrouer C, De Madron XD, Calafat A, Palanques A, Heussner S, Davies M, Drexler T, Fabres J, Miserocchi S, 2010. Reexposure and advection of C-14-depleted organic carbon from old deposits at the upper continental slope. *Global Biogeochemical Cycles* 24, article n. GB4002. Amer Geophysical Union, 2000 Florida Ave Nw, Washington, Dc 20009 USA.
- Tranchida G, Bellanca A, Angelone M, Bonanno A, Langone L, Mazzola S, Neri R, Patti B, 2010. Chronological records of metal deposition in sediments from the Strait of Sicily, central Mediterranean: Assessing natural fluxes and anthropogenic alteration. *Journal of Marine Systems* 79, 157-172.

Personal Data

I authorize the processing of my personal data pursuant to Legislative Decree 30 June 2003, n. 196 "Code regarding the protection of personal data".

Pursuant to Article 76 of Presidential Decree 28 December 2000, n. 445 and aware that anyone who makes false statements, issues false documents or uses them in the cases referred to in this text is punishable according to the Penal Code and special laws and incur, furthermore, in loss of benefits in accordance to Article 75 of the above mentioned Presidential Decree 445/2000).