

CURRICULUM VITAE

1. Family name: **CECINATO**
2. First names: **ANGELO**
3. Date of birth: **October 26th, 1952**
4. Nationality: **Italy**
5. Civil status: **married**
6. Education: **high (scientific, theological and classical)**

<i>Institution</i>	“La Sapienza” University (Rome, Italy)
<i>Date: from (month/year): to (month/year)</i>	November 1970 to July 1976
<i>Degree(s) or Diploma(s) obtained:</i>	Degree in Chemistry

<i>Institution</i>	National Research Council of Italy (CNR)
<i>Date: from (month/year): to (month/year)</i>	November 1977 May 1982
<i>Degree(s) or Diploma(s) obtained:</i>	Post-doc fellowship at the Atmospheric Pollution Institute IIA-CNR (atmospheric chemistry)

<i>Institution</i>	Pontifical Salesian University Rome, Italy
<i>Date: from (month/year): to (month/year)</i>	November 1997 April 2002
<i>Degree(s) or Diploma(s) obtained:</i>	High Mastery in Religious Sciences

7. Language skills: (increasing competence from 1 to 5)

<i>Language</i>	Reading	Speaking	Writing
<i>Italian</i>	Mother tongue		
<i>English</i>	4	4	4
<i>French</i>	4	3	3
<i>Spanish</i>			

8. Membership of professional bodies: **none**
9. Other skills: general computer literacy including Microsoft Word, Excel, Powerpoint:
excellent (used daily)
10. Present position: **Research Director at the Italian National Research Council, Institute for Atmospheric Pollution (CNR-IIA).**
11. Years within the organisation: **Since 1982, as Researcher; since 1998 as Senior Researcher, since 2002 as Director of Research; from 1st July 2018: Director of CNR-IIA Institute**
12. Key qualifications:
 - Expert in: Particulate organic pollutants, including toxic (PAH, Nitro-PAH, oxy-/aza-aromatics), source-related (alkanes, alcohols, acids) and drug (cocaine, cannabinoids) compounds.
 - Volatile and semi-volatile carbonyls and light organic acids.

Semi-volatile organics, including sampling methodologies to discriminate the vapour and particulate phase fractions (denuders).

In-field campaigns for measuring organic pollutants.

Indoor pollution

Atmospheric chemistry.

Air Pollution.

Analytical chemistry.

Data Quality assurance

13. Previous studies and experience:

Inorganic pollutants of the atmosphere: O₃, NO_x, SO₂, acid rain, SPM.

Chlorinated organics: PCDD/F, PCB, PCN, OCP.

Volatile organic compounds including reactive hydrocarbons including peroxyacyl nitrates (PANs).

Environmental ethics.

14. Professional Experience Record:

<i>Date: from (month/year) to (month/year)</i>	July 1976 to November 1977
<i>Location</i>	Atmospheric Pollution Institute
<i>Company</i>	National Research Council
<i>Position</i>	Visitor
<i>Description</i>	Post-graduate activity (atmospheric pollutants: O ₃ , NO _x , SO ₂ , particulate, rain acidity and composition; PCDD/F)

<i>Date: from (month/year) to (month/year)</i>	November 1977 to June 1982
<i>Location</i>	Atmospheric Pollution Institute
<i>Company</i>	National Research Council
<i>Position</i>	Post-doc fellowship
<i>Description</i>	Research activity concerning PCDD/F, PCB, PAH

<i>Date: from (month/year) to (month/year)</i>	January 1981 to today
<i>Location</i>	Institute Atmospheric Pollution
<i>Company</i>	National Research Council
<i>Position</i>	Tutoring, Courses, Seminars
<i>Description</i>	Italian and foreign students and PhD fellows (ca. 30 people)

15. Other Relevant Information

All scientific production of Angelo Cecinato deals with Environmental Sciences (overall with chemistry), and some of them concern environmental ethics.

16. Recent articles (2014-2018):

- R. Ladji, N. Yassaa, C. Balducci, A. Cecinato. "Particle size distribution of n-alkanes and polycyclic aromatic hydrocarbons (PAHS) in urban and industrial aerosol of Algiers, Algeria". *Environmental Science & Pollution Research* 21 (2014), 1819-1832.
- Balducci C., Ladji R., Muto V., Romagnoli P., Yassaa N., Cecinato A., 2014. Biogenic and anthropogenic organic components of Saharan sands. *Chemosphere* 107, 129-135.
- A. Cecinato, E. Guerriero, C. Balducci, V. Muto. "Use of the PAH fingerprints for identifying pollution sources". *Urban Climate* 10 (2014), 630-643.
- P. Romagnoli, C. Balducci, M. Perilli, M. Gherardi, A. Gordiani, C. Gariazzo, M.P. Gatto, A. Cecinato. "Indoor PAHs at schools, homes and offices in Rome, Italy". *Atmospheric Environment* 92 (2014), 51-59.
- A. Cecinato, C. Balducci, P. Romagnoli, M. Perilli. "Behaviours of psychotropic substances in indoor and outdoor environments of Rome, Italy". *Environmental Science & Pollution Research* 21 (2014), 9193-9200, DOI 10.1007/s11356-014-2839-2.
- A. Cecinato, P. Romagnoli, M. Perilli, C. Patriarca, C. Balducci. "Psychotropic substances in indoor environments". *Environment International* 71 (2014), 88-93.
- C. Gariazzo, C. Silibello, S. Finardi, P. Radice, A. D'Allura, M. Gherardi, A. Cecinato. "PAHs modelling over urban area of Rome: integration of models results with experimental data". *Air Pollution Modeling and its Application XXIII* (2014), 349-354. DOI: 10.1007/978-3-319-04379-1_56.
- Y. Moussaoui, Y. Kerchich, A. Cecinato. BTEXs emissions from waste municipal located at Medea City in Northern Algeria. *Annales des Sciences et Technologie* 7(1) (2015), 1-12.
- C. Gariazzo, M. Lamberti, O. Hanninen, C. Silibello, A. Pelliccioni, D. Porta, A. Cecinato, M. Gherardi, F. Forastiere. Assessment of population exposure to Polycyclic Aromatic Hydrocarbons (PAHs) using integrated models and evaluation of uncertainties. *Atmospheric Environment* 101 (2015), 235-245.
- P. Romagnoli, C. Balducci, M. Perilli, F. Vichi, A. Imperiali, A. Cecinato. Indoor air quality at life and work environments in Rome, Italy. *Environ Sci Pollut Res.* 23 (2016) 3503-3516.
- A. Cecinato, C. Balducci, M. Perilli. Illicit psychotropic substances in the air: The state-of-art. *Science of the Total Environment* 539 (2016), 1-6.
- Y. Moussaoui, C. Balducci, A. Cecinato, B.Y. Meklati. Functional and non functional particulate hydrocarbons in urban, rural and forest atmospheres of Northern Algeria. *Int. J. Global Warming* 10 (4) 2016, 454-481.
- P. Romagnoli, C. Balducci, M. Perilli, E. Perreca, A. Cecinato. Particulate PAHs and n-alkanes in the air over Southern and Eastern Mediterranean Sea. *Chemosphere* 159 (2016) 516-525.
- F. Petracchini, L. Paciucci, F. Vichi, B. D'Angelo, A. Aihaiti, F. Liotta, V. Paolini, A. Cecinato. Gaseous pollutants in the city of Urumqi, Xinjiang: spatial and temporal trends, sources and implications. *Atmospheric Pollution Research* 7 (2016) 925-934.
- F. Vichi, M. Frattoni, A. Imperiali, C. Balducci, A. Cecinato, M. Perilli, P. Romagnoli. Civil aviation impacts on local air quality: A survey inside two international airports in central Italy. *Atmospheric Environment* 142 (2016) 393-405.
- A. Boudehane, A. Lounas, Y. Moussaoui, C. Balducci, A. Cecinato. Levels of organic compounds in interiors (school, home, university and hospital) of Ouargla city, Algeria. *Atmospheric Environment* 144 (2016) 266-273.
- S. Finardi, P. Radice, A. Cecinato, C. Gariazzo, M. Gherardi, P. Romagnoli. Seasonal variation of PAHs concentration and source attribution through diagnostic ratios analysis. *Urban Climate* 22 (2017), 19-34. DOI: <http://dx.doi.org/10.1016/j.uclim.2015.12.001>.
- C. Balducci, D.C. Green, P. Romagnoli, M. Perilli, C. Johansson, P. Panteliadis, A. Cecinato. Cocaine and cannabinoids in the atmosphere of Northern Europe cities, comparison with Southern Europe and wastewater analysis. *Environment International* 97 (2016) 187-194.

- S. Khedidji, C. Balducci, R. Ladj, A. Cecinato, M. Perilli, N. Yassaa. Chemical composition of particulate organic matter at industrial, university and forest areas located in Bouira province, Algeria. *Atmospheric Pollution Research* 8 (2017) 474-482.
- A. Cecinato, P. Romagnoli, M. Perilli, C. Balducci. Pharmaceutical substances in ambient particulates: A preliminary assessment. *Chemosphere* 183 (2017) 62-68.
- A. Cecinato, P. Romagnoli, M. Perilli, C. Balducci. Psychotropic substances in house dusts: a preliminary assessment. *Environ. Sci. Pollut. Res.* 24 (2017), 21256–21261.
- P. Romagnoli, F. Vichi, C. Balducci, A. Imperiali, M. Perilli, L. Paciucci, F. Petracchini, A. Cecinato. Air quality study in the coastal city of Crotona (Southern Italy) hosting a small-size harbor. *Environ. Sci. Pollut. Res.* 24 (2017), 25260–25275.
- F. Petracchini, P. Romagnoli, L. Paciucci, F. Vichi, A. Imperiali, V. Paolini, F. Liotta, A. Cecinato. Influence of transport from urban sources and domestic biomass combustion on the air quality of a mountain area. *Environ. Sci. Pollut. Res.* 24 (2017), 4741–4754
- P. Romagnoli, C. Balducci, A. Cecinato, N. L'Episcopo, C. Gariazzo, M.P. Gatto, A. Gordiani, M. Gherardi. Fine particulate-bound polycyclic aromatic hydrocarbons in vehicles in Rome, Italy. *Environ. Sci. Pollut. Res.* 24 (2017), 3493–3505.
- C. Balducci, A. Cecinato, V. Paolini, E. Guerriero, M. Perilli, P. Romagnoli, C. Tortorella, S. Iacobellis, A. Giove, A. Febo. Volatilization and oxidative artifacts of PM bound PAHs collected at low volume sampling (1): Laboratory and field evaluation. *Chemosphere* 200 (2018), 106-115.
- C. Balducci, A. Cecinato, V. Paolini, E. Guerriero, M. Perilli, P. Romagnoli, C. Tortorella, R.M. Nacci, A. Giove, A. Febo. Volatilization and oxidative artifacts of PM bound PAHs at low volume sampling (2): Evaluation and comparison of mitigation strategies effects. *Chemosphere* 189 (2017), 330-339.
- L. Rabhi, A. Lemou, A. Cecinato, C. Balducci, N. Cherifi, R. Ladj, N. Yassaa. Polycyclic aromatic hydrocarbons, phthalates, parabens and other environmental contaminants in dust and suspended particulates of Algiers, Algeria. *Environmental Science and Pollution Research* (2018), <https://doi.org/10.1007/s11356-018-2496-y>
- I. Gdara, I. Zrafi, C. Balducci, A. Cecinato, A. Ghrabi. Seasonal occurrence, source evaluation and ecological risk assessment of polycyclic aromatic hydrocarbons in industrial and agricultural effluents discharged in Wadi El Bey (Tunisia). *Environ. Geochem. Health* (2018), <https://doi.org/10.1007/s10653-018-0075-2>.
- I. Gdara, I. Zrafi, C. Balducci, A. Cecinato, A. Ghrabi. Occurrence, Sources and Environmental Health Risk Assessment of Polycyclic Aromatic Hydrocarbons in Domestic Effluents Discharges in Wadi El Bey (Tunisia). In: A. Kallel et al. (eds.), *Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions*. Springer International Publishing AG (2018), *Advances in Science, Technology & Innovation*, https://doi.org/10.1007/978-3-319-70548-4_143.
- V. Paolini, F. Petracchini, M. Segreto, L. Tomassetti, N. Naja, A. Cecinato. Environmental impact of biogas: A short review of current knowledge, *Journal of Environmental Science and Health Part A*, (2018). DOI: <https://doi.org/10.1080/10934529.2018.145907610>.

17. Short history:

17.1. A. Cecinato was born in Taranto on October 26th, 1952 and graduated in Chemistry at La Sapienza University in Rome, Italy (1976). Nowadays he is Director of Research at the Italian National Research Council CNR. His scientific route was developed in the Institute for Atmospheric Pollution (IIA-CNR), first as free visitor (1976), then as young research fellow (1977), researcher (1982), senior researcher (1998), director of research (2003) at the CNR-IIA in Montelibretti RM, where it was committed of scientific Direction starting from 1st July, 2018. A. Cecinato obtained also the three-year Diploma in Lay Theology (1989) granted by Rome Diocese, and the Superior Mastery in Religious

Sciences (2002) by Salesian Pontifical University, equivalent to a four-year degree recognized by the Vatican State.

17.2. The scientific activity carried out by Angelo Cecinato includes:

a. Research Programs of national and international concern: A. Cecinato participated in numerous ordinary IIA-CNR projects, targeted and strategic projects launched by CNR, programs or common and concerted actions of European Union, and contracts and grants released by Institutions, Agencies and Boards (ENI, ENEA, ISPESL, ISS, Universities, Institutes, Local Governments, Ministries of Health, of Environment, of Education University and Research). In 2004-2007 A. Cecinato was the titular of a project granted by MIUR in the frame of the FIRB-2001 Program. All studies and actions carried out by A. Cecinato belong to the field of Environmental Chemistry, within the topics of pollution (air, emissions, complex media) and atmospheric chemistry. These investigations were first (1976-1980) addressed to inorganic species (O_3 , NO_x , SO_2 ; cations and anions in rain, atmospheric acidity); then, his concern was focussed onto organic compounds developing long-term toxicity in humans (PCB, PCDD/F, PAH, NPAH, VOC, aldehydes, PAN) or eligible as markers of pollution sources (alkanes, organic acids). In 2006 A. Cecinato started a very new research on psychotropics. Besides, extensive investigations have been undertaken about indoor pollution (overall in the frame of LIFE+ EXPAH Project). These researches are aimed to measure PAHs, cocaine and other illicit substances and pharmaceuticals in ambient air, as well as to identify their sources and epidemiological effects. Numerous investigations made by A. Cecinato are characterized by innovation value. With this regard, important studies dealt with nitrated polycyclic aromatic hydrocarbons, polar organic contaminants, carbonyls, air toxicants, partition of organics between gas and particulate phases as well as between the fine, coarse and large airborne particles.

b. Commissions and Committees: A. Cecinato took part in both national and international Commissions and Working Groups, including the WHO-WG on Nitro-PAH (2001), the Italian Ministry of the Environment WG on benzene, benzo(a)pyrene and atmospheric particulates (since 1994) and National Special Networks for Air Pollution (2011), and Superior Institute of Health on Indoor Pollution.

c. Teaching and Tutoring: A. Cecinato spends regularly a fraction of his time in the task of scientific teaching and training for visitors, grant holders financed by CNR and other Agencies and Institutions (Italian Army Technical Corp, new graduated from Italy and foreign countries). He's tutor of students from Italian universities aiming at be graduated. He makes seminars and conferences within workshops, days and schools organized by national universities and JRC of Ispra, as well as in the frame of bilateral co-operations between China RP and Ital, as well as CNR-IIA and Universities. Seminars and conferences have been held also on behalf of Scientific Delegations coming from USA and other foreign countries. Since 1996 A. Cecinato is the leader of a CNR-IIA research team dealing with organic pollution of atmosphere.

d. Chemical Investigations and Technical Reports: Both numerous, (96), many of which requested by the CNR Administration Boards in Rome and in Montelibretti RM.

e. Other tasks and Nominations: A Cecinato was/is member of Organizing Committees of Symposia or Conferences, and of Competitive Examination Commissions. He is member of the CNR-IIA Scientific Committee.

f. Reviewing of scientific articles submitted for publication: A. Cecinato reviews scientific papers proposed for publication, on behalf of 20 ISI journals, i.e. Analytical and Bioanalytical Chemistry; Analytical Chemistry; Atmospheric Environment; Atmospheric Research; Annali di Chimica; Environmental Research; Environmental Science and Pollution Research; Environmental Science and Technology; Il Farmaco; International Journal of Environmental Analytical Chemistry; Journal of Chromatography; Journal of Environmental Monitoring; Journal of Geophysical Research; Journal of Separation Science; Talanta; Urban Pollution; Water, Air and Soil Pollution, Environmetn International. As for his scientific production, 147 articles appeared in scientific journals of international relevance, 32 papers in national journals and 19 monographs and book chapters, 160 contributions were brought at international conferences, and ca. 200 at national congresses; 12 web documents or interviews; 68 seminars, lessons or training courses. Finally, he has edited three *Powerpoint* presentations about atmospheric pollution made in popular format and available by request from the CNR-IIA.

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Contact address, including telephone, fax and e-mail:

Dr. Angelo Cecinato

Italian National Research Council, Institute of Atmospheric Pollution Research (CNR-IIA)

Via Salaria km 29,3 – P.O. Box 10, I-00015 – Monterotondo Stazione RM, Italy

Phone: +39-0690672-260; fax: +39-0690672660; e-mail address: cecinato@iia.cnr.it