

Curriculum Vitae

1. **Family name:** HOLTZMANN
2. **First names:** Kay Hermann
3. **Date of birth:** April 27th 1956
4. **Passport holder of:** Germany, passport no. C2FT33KHC
5. **Education:** Geologist
- 6.

<i>Institution [Date from – Date to]:</i>	<i>Degree(s) or Diploma(s) obtained:</i>
Free University, Berlin, Germany [1977-1986]	Diploma in Geology / Palaeontology (equivalent to master's degree)

7. **Language skills:** competence on a scale of 1 to 5 (1 - excellent; 5 – basic)

<i>Language</i>	<i>Reading</i>	<i>Speaking</i>	<i>Writing</i>
German (Mother tongue)	1	1	1
English	1	1	1
Spanish	4	5	5
French	4	5	5

8. **Membership of professional bodies:**

- German Geological Society

9. **Other skills:**

- Over 25 years of international experience in the field environmental engineering/geology
- Extensive experience in waste management, supervision and controlling of sanitation projects, expert reports in the environmental field
- Accredited Waste Manager according to the German legislation
- Health and safety advisor for projects in contaminated environments (Accredited according to the German legislation)
- Hydrogeologist
- Pedologist (soil expert)
- Gemmologist (expert for diamonds and coloured gemstones)
- International large scale projects
- Project management
- Project supervisor
- Field supervisor
- Environmental Impact and hazard Assessment (EIA)
- Environmental-Due-Diligence-Reports for buildings and industrial facilities
- Fully computer literate
- Reporting skills
- International Motorboat Licence

Home-page: www.kay-holtzmann.de

10. **Present position:**

- Freelance Independent Consultant

Norderney, July 2023

Dipl.-Geol. K. Holtzmann

11. *Professional experience:*

<i>Date from - Date to:</i>	<i>Location:</i>	<i>Company & Reference Person (name & contact details):</i>	<i>Position:</i>	<i>Description:</i>
01/2020 – 12/2021	Norderney, Germany	Integrated Traffic System for the Municipality of Norderney, Germany	Project Manager	Consultancy Services for the Design & Implementation of a municipal traffic System under special consideration of a positive Eco-Balance
08/2018 – 05/2019	Qatar	Dornier Consulting GmbH	Project Leader	Consultancy Services for Investigations & Remediation of Oil Contamination in the groundwater of parts of the peninsula of Qatar - Delineation of contaminated areas and identification of contaminant sources – field survey and evaluation of data, preparation and implementation of the campaign
05/2017- 09/2017	Kuwait and Germany	Fraunhofer Institut	Project Leader	“Survey and Establishment of a comprehensive data base for waste management in Kuwait” – eMISK_{waste} as an employee for the “Fraunhofer Institut UMSICHT (Umwelt-, Sicherheits- und Energietechnik), Sulzbach-Rosenberg, Germany.
05/2015- 11/2015	Port Harcourt, Nigeria	Dr. David Little, UNEP consultant Tel+44 7977 995 287	Project Director for the Bodo Creek Clean- up Project	Mangrove Restoration of the Bodo creeks, Nigeria “Accountable for overall delivery of the project in accordance with the agreed Remedial Action Plan. Size of area is about 1000 hectares in Bodo creek. Primary point of contact and interface with the Bodo Mediation Executive Steering Committee and external Stakeholders. Responsible for overall project management and delivery of the project in accordance with the agreed Remedial Action Plan and within agreed budget. Primary point of contact with the Project Engineers & Supervisors, responsibility for financial control of project budget and management of contractual issues between the Bodo Mediation Project Execution Team and Contractors. Dual function as project process owner and contract holder with responsibility for the planning, execution and management of the project works and reporting to the Bodo Mediation Technical Working Committee and Executive Steering Committee. Management of any other process that will ensure the implementation of the clean-up, remediation and disposal of toxic waste in a technically sound, and environmentally friendly manner in accordance with international standards and global best practices.”

CV: **Mr. Kay HOLTZMANN** – (continued)

<i>Date from - Date to:</i>	<i>Location:</i>	<i>Company & Reference Person (name & contact details):</i>	<i>Position:</i>	<i>Description:</i>
01/2013	Berlin, Germany	acvialle@unicef.org +243 (0) 99 290 86 90	Consultant	Draft of a project study for an UNICEF project - Water Safety Framework for the “Healthy Villages and Schools” program in the DRC (Kinshasa)– Program WASH
08/2012-09/2012	Pointe Noire, Dem. Rep. Of Congo	Fugro Consult	Field Supervisor, HSE Representative	ENI Tar Sand Project, Congo (Brazzaville) Mboundi, Field Supervisor and HSE Representative, Health and Safety in the field, Services rendered: Supervision of environmental objectives and standards, HSE-training of staff, toolbox meetings, HSE administration and documentation for clients
05/2011-06/2011	Geneva, Switzerland, Germany	UNEP Geneva, muralee.thummarukudy@unep.org	Consultant	Preparation, organisation and execution of a one-week training course for Chinese environmental experts and administrative delegates. Services rendered: Preparation of the workshop, support services for the delegates and presentation of expert reports. Sites visited: “Kölliken dump” for industrial waste, Switzerland, “Ecological large scale project Berlin, Germany” (several sites), “Harz-Metall”: former metal processing plant, Goslar, Germany. Delegates from the institutions (inter alia) Research Institute of Solid Waste Management, Chinese Research Academy of Environmental Sciences (CRAES), College of Construction and Environment, Sichuan University, Chengdu, Sichuan Environmental Protection Bureau, Research Academy of Environmental Sciences of Qinghai Province
02/2011-04/2011	Berlin, Germany	UNEP Geneva, muralee.thummarukudy@unep.org	Consultant	Preparation of environmental guidelines: “Introduction to international Environmental Quality Standards for aliphatic and aromatic Hydrocarbons in Soil, Groundwater and Drinking Water under special Consideration of the environmental Situation in the Niger Delta”

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10/2009- 08/2011	Port Harcourt Nigeria	UNEP Geneva, muralee.thummarukudy@unep.org	Expert, Consultant	Large Scale Environmental Reconnaissance Project description: Large scale environmental reconnaissance (phase 1 and 2) and proposals for further survey and later remediation in Ogoniland, River State, Nigeria. Services rendered: Standard operation procedures, Evaluation of phase 1 sites, prioritisation of contaminated sites, training of local staff in field operations, sampling methodology & techniques, environmental awareness rising among local population for WASH , health & safety in the field, project management outlines, supervision of drilling campaign, data collection from local experts, hydrogeology, soil science, sampling methodology & techniques, hydrogeological target identification for further survey, Implementation of best international practises regarding HSE, and the treatment of (toxic waste).
11/2008 - 12/2010	Germany	KWS Geotechnik GmbH friederike.zumloh @kwsberlin.de	Project Manager	Former Steel-Factory Hennigsdorf, Germany Project description: Revitalisation of the former steel-factory Hennigsdorf: groundwater-sanitation and soil-clean-up (halogenated hydrocarbons) Services rendered: Project management and implementation, on-site supervision and safety advisor for contaminated environments
09/2007 – 03/2008	Switzerland	UNEP Geneva	Expert, Consultant	Large Scale Environmental Survey of Ogoni in the Niger delta Project description: Large scale environmental survey on waste management and environmental damages caused by exploration and production activities by oil producing companies in Niger delta Services rendered: Preparation of Standard Operation Procedures, technical specifications and project management outlines , general introduction to the project and UN safety standards in several work shops
05/2007 - 10/2008	Germany	GSU mbH mathiasfailing @gsu.de	Supervisor	Palast der Republik, Berlin, Germany (former cultural and administrative centre of the GDR) Project description: Asbestos-sanitation in the facility Services rendered: Supervision and documentation of the sanitary, management for the treatment of toxic waste (asbestos).
04/2006 - 03/2008	Germany	Gunnar Reich Co. gunnar- reich@freenet.de	Project Manager	Investigation and Sanitation of a Groundwater-Contamination by High Volatile Hydrocarbons at the “Rainbow Factory”, Berlin, Germany Services rendered: Project implementation and management, controlling and supervision of the drilling- and sampling-campaign, geology/hydrogeology for the Senate of Berlin, management for the treatment of contaminated groundwater

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02/2006-04/2008	Germany	Sonderabfalldepot nie Wetro karsten- maenz@gmx.de	Project Manager	Closure of the industrial dump “Thonberg”, Germany Services rendered: Project management and planning, Reconciliations with the the administration and stakeholders, EIA for the location, survey (drilling, sampling, documentation,) geology/hydrogeology (profiles, mapping), treatment and disposal of the waste
2004	Germany	IUP GmbH	Consultant	Consultancy for the environmental evaluation of 100 sub-Sites of the Petrochemical Plant Schwedt, Germany Services rendered: Evaluation of expert reports on the environmental hazards for an oil refinery, assessment of the extent of the damage due to contamination of groundwater with a financial risk for the client of up to 240M€
08/2003 - 03/2005	Germany	Brandenburgische Boden Gesellschaft für Grundstücksverwaltung und –verwertung mbH (BBG) andreas.isenberg@bbg-immo.de	Waste Manager, Project Leader	Brandenburgische Boden GmbH on behalf of the Ministry of Finance of the Federal State – Former Russian Army Airfield in Neuruppin, Brandenburg, Germany Project description: Remediation of contaminated soil and groundwater by aliphatic and aromatic hydrocarbons, waste management on the former army airfield in Neuruppin Services rendered: Preparation of technical specifications for procurement, cost calculations for remedial action, tendering for remediation services and procurement of the equipment, preparation of ToR for the contractors, funding applications, project implementation management, controlling and accounting, waste management for toxic waste from the demolition of buildings and contaminated soil and groundwater after excavations
2003 - 2008	Germany, Slovak Republic, Austria	DOR, HDO, WSP Environmental	Project Manager	Environmental Due Diligence – Survey and Reports Galvanic plants DOR, HDO in Povazska Bystrica and in Myjava , Slovak Republic “Siemens-Sites” in Germany (Paderborn, Hamburg, Rostock) for WSP Risk Management Services, London Environmental-Due-Diligence-Reports (phase 1) for “Sinn/Leffers-Sites” in Germany (Herne, Münster, Duisburg, Gelsenkirchen, Oberhausen, Mönchengladbach) for WSP Environmental, Leeds, Great Britain Environmental-Due-Diligence-Report (phase 1) for a company trading chemicals – KMF Laborchemie Handels GmbH in Lohmar - North Rhine Westfalia, for WSP Environmental, Frankfurt, Germany Risk Assessment and Environmental Due Diligence-Report (phase 2) for ABB Calor Emag Mittelspannung GmbH, 14542 Werder-Glindow , Germany Environmental-Due-Diligence-Report (phase 1) for a office building in Vienna , Austria for WSP Environmental, London, UK

<i>Date from - Date to:</i>	<i>Location:</i>	<i>Company & Reference Person (name & contact details):</i>	<i>Position:</i>	<i>Description:</i>
2003 - 2003	Germany	Dre-con	Project Manager	Metal Processing Plant in Eberswalde, Germany Services rendered: Environmental Impact Assessment
2002 - 2005	Germany	SGSG karsten- maenz@gmx.de	Project Manager	Projects in the Free State of Saxony, Germany - Remediation of a former site for the delaboration of explosives in Elsnig. Supervision, HSE, documentation Services rendered: Controlling and supervision, reconciliation with the administration and stakeholders - Remediation of Dumps for Tar-Products in Lautau: Services rendered: Controlling and supervision, reconciliation with the administration and stakeholders - Former 'Aropharm' Plant in Riesa. Services rendered: Environmental Impact Assessment for the chemical dump, Planning and implementation of the survey (drilling, sampling, chemistry, documentation), reconciliation with the administration and stakeholders, expert report
2001 - 2004	Germany	BBG andreas.isenberg @bbg-immo.de	Project Leader	Brandenburgische Boden GmbH on behalf of the Ministry of Finance of the Federal State of Brandenburg - Former Russian Military Airport Oranienburg. Services rendered: Project management for the remediation of multiple contamination of soil and groundwater by aliphatic and aromatic hydrocarbons and re-development of the military brown-field for a communal use in combination with public funded support for unemployed persons, reconciliation with administration and stakeholders, waste management - Planning for the installation of plants to generate renewable energy (wind and solar power) on closed waste dumps: Project management - EIA for a bulk fuel storage in Niedergörsdorf, environmental expert report on contamination of soil and groundwater with aliphatic hydrocarbons - Support to BBG, the Federal State of Brandenburg institution for the conversion and marketing of former Russian military sites . Project-concept for a BBG proposal for a government funded research campaign on (Enhanced) Natural Attenuation on the Niedergörsdorf site.

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2000 – to date	Germany	Cooperation with the engineering companies KWS GmbH Friederike. Zumloh@kws- geotechnik.de , Tel. +49 (0)30 26399630 and IUP GmbH jens.schneider@i up-net.de	Project Manager	Cooperation in several projects of Environmental Impact Assessment, Remediation of contaminated land, Revitalisation of military and industrial brown-fields, Supervision of large scale remediation projects, Assessment of large scale survey projects. Details of selected project see above
1996	Germany	Treuhandanstalt Friederike. Zumloh@kws- geotechnik.de , Tel. +49 (0)30 26399630	Chief of Project	Ecological Large-Scale project Mansfeld, Germany Project description: Mansfeld was the former mining district and processing centre for copper ore in the GDR Duties: Project leader of the investment plan “Mansfeld Copper and Brass Ltd.” Planning, management, coordination and controlling of measures to dispose dangerous waste from the past and to re-developing the site, implementation of sanitary measures to improve the ecological situation of the region, management plans for the supply with potable water and the renaturation of surface waters, monitoring & evaluation of projects funded by “Treuhandanstalt”, Planning for a dump close to the industrial complex, planning and disposal of toxic waste (industrial sludge and dust) in the dump, closure of the dump, documentation, reconciliation with the administration and stakeholders
04/1992 - 03/2000	Germany	Treuhandanstalt	Project Manager, Project Leader	“Treuhandanstalt” (German Government) Special directorship concerned with Environmental Problems and Dangerous Waste from the Past after the Reunification of Germany Project description: Solutions for environmental problems which could endanger potential investments and the privatisation of former governmental enterprises in the former GDR Duties: Evaluation and comments on over 1.000 expert reports from the environmental field, project management, accounting
1989 - 1992	Germany	Noell Environmental Services	Project Manager	Field Campaigns, Drilling and Sampling Campaigns Duties: Waste management, implementation supervision and controlling of sanitation projects , expert reports in the environmental field, Health & Safety advisory services for projects in contaminated environments, EIA, revitalisation of industrial brown fields, organisation and supervision of survey projects and drilling campaigns, documentation

<i>Date from - Date to:</i>	<i>Location:</i>	<i>Company & Reference Person (name & contact details):</i>	<i>Position:</i>	<i>Description:</i>
1987	South Africa	Kloof Gold Mine Research Centre	Junior Geologist	Mining Geologist Duties: Working in a special department handling environmental problems, stoping, underground survey, survey and management environmental impact caused by the mine, management of compensation measures

12. Other relevant information:

- **Holtzmann, K., 1999:** “The migration of liquid petroleum products in soil and groundwater bearing sediments derived from the screening of more than 400 petrol stations and bulk fuel storage depots”. Altlasten Spektrum, vol. 6/99, p. 367-376 (in German).
- **Holtzmann, K., 2003:** “About an ecologically and economically balanced frame of measures for the revitalisation of brown-fields shown by the example of a site in the City of Berlin”. Altlasten Spektrum, vol. 3/03, p. 151-155 (in German).
- **Holtzmann, K., 2003:** “The Spatial Distribution of PHC in Quaternary Sediments beneath Fuel-Stations and Bulk-Fuel-Storage-Sites in Central and Northern Germany”, Oil – Gas European Magazine, Vol. 9. (in English).
- **Thiergärtner, H.; Holtzmann, K.:** Mathematically aided risk assessment of crude oil contamination in Ogoni, Nigeria. Part 1. Geo-ecological characterization of the pollution. OIL GAS European Magazine, Urban-Verlag, Hamburg/Wien, vol.37, 3/2011, p. 143–147.
- **Thiergärtner, H.; Holtzmann, K.:** Mathematically aided risk assessment of crude oil contamination in Ogoni, Nigeria. Part 2. Generalizing statistical analysis of the pollution. OIL GAS European Magazine, Urban-Verlag, Hamburg/Wien, vol.37, 4/2011, p. 208–211.
- **Thiergärtner, H.; Holtzmann, K.:** Mathematically aided risk assessment of crude oil contamination in Ogoni, Nigeria. Part 3. Spatial model of the multiple contamination. OIL GAS European Magazine, Urban-Verlag, Hamburg/Wien, vol.38, 1/2012, p. 143–151.
- **Thiergärtner, H.; Holtzmann, K., 2014:** “Modelling and preliminary assessment of crude oil contaminated soil in Ogoni (Nigeria)”. Altlasten Spektrum, vol. 2/2014, p. 59-69 (in English).
- **Little D.I., Holtzmann K., Gundlach E.R., Galperin Y. (2018):** Sediment Hydrocarbons in Former Mangrove Areas, Southern Ogoniland, Eastern Niger Delta, Nigeria. In: Makowski C., Finkl C. (eds) Threats to Mangrove Forests. Coastal Research Library, vol 25. Springer, Cham