

Curriculum Vitae Dr.-Ing. Robert Stein

Personal data

Date-, place of birth 1967-01-29, Berlin (Germany)
 Nationality: German
 Marital status: Married

Qualifications

Brief description



Dr.-Ing. Robert Stein is the CEO of Prof. Dr.-Ing. Stein & Partner GmbH. His business activities include planning services as well as the expert supervision of defects in the field of underground infrastructure systems. In this connection he has been involved in a multitude of jacking projects. His most manifold research activities had the particular aim of achieving an improvement of the capacities of microtunnelling. He is the author of the reference book "Asset Valuation of Sewer Networks", of the chapter on pipe jacking works (ATV DIN 18319) and co-author of the book "Mini-Horizontal Directional Drilling" as well as of various technical articles.

As a technical advisor he was involved in the feasibility study of the project "Construction of a gas pipeline in the Baltic Sea by pipe jacking" in the area Greifswalder Bodden by order of Nord Stream AG, Switzerland in 2007. By order of the federal government he was in charge of the project management for the planning check, supervision and back up of the authorising bodies within the scope of the approval process of the Emscher Sewer, among others check and evaluation of the construction, operation and maintenance concepts for the approx. 52 km wastewater sewer DN 1400 to DN 2800. This sewer project is regarded as the one of the largest of its kind in Europe.

In the field of human resource development he is responsible for the development of the largest e-learning-platform in the area of civil engineering in cooperation with the Main Association of the German Construction Industry. Furthermore, Dr. Stein has a long experience in the area of sewer construction and maintenance. Current main focus is the modelling of conditional and substantial developments of supply and disposal pipelines and also the development of demand-orientated maintenance strategies.

Tasks / responsibilities

Managing associate / project management, realisation of major projects, coordination of interdisciplinary project teams, management of the international advanced training and educational activities

International experience:

USA (1995, 1994), France (1993)

Specific software knowledge:

Project management (MS Project, Projectile)

Curriculum Vitae
Dr.-Ing. Robert Stein

- Seminars:
(Chairman or/and Speaker) Chairman - Trenchless Pipe Replacement Practices, Abu Dhabi (2009), Chairman - Workshop Rehabilitation of Damaged Wastewater Pipes, Isfahan (2006); Chairman – Maintenance of Water and Wastewater Networks, Jordan (2007) together with GTZ, Chairman – Maintenance of Water and Wastewater Networks, Jordan (2006) together with GTZ, Int. Workshop on Innov. in Optim. Water Conservation, Tehran (2006); Lindau JT-Seminar (2006, 2005, 2004, 2003, 2002, 2000, 1999), RCUWM-Tehran international workshop on 'Public Participation, Awareness and Information Exchange for Water Resources Development and Management', Sultanate of Oman (2005)
- Congresses, Conferences:
(Moderator, Chairman) Moderator - Promoting Trenchless Technology in Middle East, Abu Dhabi (2009), Moderator - International Summit Trenchless Technology, Abu Dhabi (2009), Chairman 53. Concrete Solutions Germany (2009), Session Concrete and reinforced concrete pipes, Chairman NO DIG India (2007), Sessions V Capacity Building through Human Resource Development for Trenchless Technology Application and VI Procurement Processes & Economy; Chairman NO DIG (2006), Session Rehabilitation / renewal; Chairman Water Middle East, Bahrain (2005), Session 2.1 Strategic Network Monitoring, Assessment and Planning and Session 2.2 Technologies and Procedures for Network Operation and Maintenance; Chairman NO DIG (1997), Session 8 Detection and Local Repairs
- Congresses, Conferences:
(Speaker): Et al. 10th Transportation Forum (2009), Int. Conf. on Underground Construction Technology, Int. UNW-DPC Workshop on Drinking Water Loss Reduction (2008), RehaTec (2007), Dortmund Rehabilitation Day (2007), Infrastructure Day Sewer construction & rehabilitation (2007), 3. Int. Expert forum of wet waste experts and waste disposal practitioners, 9th German Arab Business Forum (2006), Dortmund Rehabilitation Day (2005), 4. DWA / Güteschutz Kanalbau / RSV / GSTT Rehabilitation Days (2005), Symp. River Basin Management (2005), IFAT (2005), Oldenburg Pipeline Forum (2006, 2005, 2004), LEARNTEC (2004), 1st Int. Conf. Innov. and Future Developm. in Cement Production and Concrete Constr. (2004), Forum Future Mobility (2004), Sewer System Forum – Value Conservation of Sewer Systems (2004), IFAT China (2004), Developm. of Sewer System Techn. (2004), Rainwater Days (2004), ATV - Rehabilitation Days (2004), e|GOV Days (2004), CORP (2004), Geo Multimedia (2004), ASCE Int. Conf. Pipelines (2004, 2003), Conf. Success Story E-learning (2003), ATV - Software-Days (2003), URBAN (2003), Transportation Science Days (2003), ISUFT (2002), Mainau Mobility Forum (2002), Dresden Sewage Conf. (2002), Symp. Cost-effective Sewer Rehabilitation Planning (2001), Experience in Sewer Rehabilitation Methods (2001), Symp. Trenchless (2000), Int. Symp. for Mains (1999), Essen Symp. f. Water- and Waste-Management (1999), 1st Int. Videoconference Trenchless Techn. (1998), NO DIG (2005, 2004, 2003, 2001), Int. Congr. Pipeline Constr. (2000, 1997)
- Seminars
(Participation): Sewage Techn. Seminar (2005), VDRK-Seminar (2004), Workshop Water & Wastewater Techn., Teheran (2003); Trenchless Techn. Adv. Mini-Directional Drilling Field Seminar (1995), Use of Drilling Fluids in Industrial Drilling (1995), Trenchless Techn. Mini-Directional Drilling Field Seminar (1994), Ditch Witch Customer Trenchless Seminar (1994)

Curriculum Vitae Dr.-Ing. Robert Stein

Foreign languages: English (fluent oral and written skills)
French (very good basic knowledge)

Professional experience

2008 Graduation at RWTH Aachen University, Faculty of Civil Engineering
Subject of the dissertation: "Effects of optimised road gullies on the entry of solids into the sewer system"
Degree: Dr.-Ing.

Since 2006-06-28 S & P CONSULT GmbH, Bochum
Managing Director

Since 2006-06-28 Knowledge Factory – Company for the planning, development and distribution of web-based expert platforms for information, learning and working in technical fields
Managing Director

Since 2000-01-19 visaplan – Organisation for digital media integration GmbH, Bochum
Managing Director

Since 1996-12-20 Prof. Dr.-Ing. STEIN & PARTNER GmbH, Bochum
Managing Associate

1995-10-01 – 1996-12-19 Prof. Dr.-Ing. STEIN & PARTNER GmbH, Bochum
Project manager engineering division

1994-10-01 – 1995-09-30 Purdue University, Indianapolis
Department of Construction Technology
Scholarship of Oswald-Schulze-Endowment
Research assistant of Dr. Iseley

1994-03-12 – 1994-09-30 Prof. Dr.-Ing. STEIN & PARTNER, Bochum
Project manager engineering department

1991-07-15 – 1991-08-22 Westrohr GmbH & Co. Concrete Factory Calau
Practical training

1990-01-01 – 1992-12-31 Ruhr-University Bochum, Faculty of Civil Engineering
Chair of foundation engineering / soil mechanics
Graduate assistant

1989-07-10 – 1989-07-21 Construction Company E. Heitkamp GmbH
Practical training

1988-07-04 – 1988-08-26 Hochtief AG, Regional Office Bochum
Occupation as a construction worker

Technical education

1993-04-01 – 1993-07-30 Ecole Centrale Nantes, Laboratoire de Genie Civil
Erasmus – scholarship holder

1988-10-01 – 1994-03-11 Ruhr-University Bochum, Faculty of Civil Engineering
Studies of Civil Engineering. Main focus on environmental technology and interdisciplinary foundation engineering / soil mechanics
Degree: Dipl.-Ing. (Dr.-Ing. – in 2008)

Memberships

Curriculum Vitae
Dr.-Ing. Robert Stein

2009	Member of the DWA-working group ES-8.9 Rehabilitation strategies
2006	German Society for Trenchless Technology (GSTT) Manager of the working group 7 of the working committee 7 "Development and research"
Since 2006	German Society of Trenchless Technology (GSTT) Member of the Advisory Board
2005 – 2006	German Society for Trenchless Technology (GSTT) Member of working group 11 "Technical service life of rehabilitated supply and disposal lines"
2004 – 2005	German Association of Water, Wastewater and Waste (DWA) Member of working group ES 8.10 "Lining of drains and sewers with local produced and hardening pipes – anchor hose lining"
2001 - 2003	European Forum on Underground Construction (EFUC) Head of the working group "Instruction and Advanced Training"
Since 1999	German Society for Trenchless Technology (GSTT)
1998 – 1999	Joint Working Group International Tunnelling Association (ITA) / German Society for Trenchless Technology (GSTT) "Social cost"

Publications

(selection)

2009	Reference book Stein, R., Ghaderi, S.: „Vermögensbewertung von Abwassernetzen“ (Asset Valuation of Sewer Networks), Fraunhofer IRB Verlag: ISBN 978-3-8167-7938-4 Stein, R.: The Construction Site on Your Desktop – Amazing Learning Success in Transferring Theory into Practice. In Conference CD, Online Educa Berlin, December 2-4, 2009 Stein, R.: Einsatz des Separations-Straßenablaufs zur Reduzierung von Feststoffeinträgen in Kanalisationen. In KA Korrespondenz Abwasser, Abfall (2009), No. 8, pp. 777-784 [Use of the Separation Street Outlet to Reduce the Input of Solid Matter into Sewer Systems] Stein, R.; Cakmak, H.: Umfrage zum Zustand der Straßenablaufsysteme in Deutschland (Teil 2). In: bi UmweltBau (2009), No. 3, pp. 72 – 77 [Survey on the condition of Road Gully systems in Germany] Stein, R.; Cakmak, H.: Umfrage zum Zustand der Straßenablaufsysteme in Deutschland (Teil 1). In: bi UmweltBau (2009), No. 2, pp. 94 – 98 [Survey on the condition of Road Gully systems in Germany] Stein, R., A. Uhlenbroch: Differentiated aging analysis of concrete pipes – Differences in service life recorded for various construction periods. In: Proceedings 53 rd BetonTage Stein, R., Uhlenbroch, A.; Ghaderi, S.; Analysis of the long-term effects of Maintenance and Investment Strategies. In: International Conference on Underground Construction Technology, San Antonio, USA - Session: Establishing a Pathway for Achieving Water Utility Infrastructure Management
2008	Stein, R., H. J. König, C. Statetzni: HDD-Felsbohrung in Hanglage. In: bi UmweltBau (2008), No. 6 [HDD-rock bore in a hillside situation]

- Stein, R.: Auswirkungen optimierter Straßenabläufe auf Feststoffein-träge in Kanalisationen, doctorate 2008 In: RWTH Aachen Hochschulbibliothek <http://darwin.bth.rwth-aachen.de/opus3/volltexte/2008/2491/> [Effects of optimised road gullies on the entry of solids into the sewer system]
- Stein, R., Trujillo Alvarez, R., Uhlenbroch, A.: Saving Water Resources by Leakage Reduction Strategies Using an Holistic Network Management. In: Indian Water Works Association Mumbai Centre (Veranst.): Achieving 24 x 7 Continuous Water Supply, 10th International Conference 11–12th January, 2008 – Mumbai, India
- 2007 Stein, R.: Wird die digitale Technik Standard? In: bi UmweltBau (2007), No. 2, pp. 61 – 67 [*Is digital Technology becoming Standard?*]
- D. Beckmann, R. Stein, T. Fabri: CoJack – A new statics method of computing and controlling pipe Jacking. In: Tunnelling and Underground Space Technology 22 (2007), pp. 587-599
- Stein, R.; Beckmann, D.: CoJack-Variante für GFK-Vortriebsrohre. In: bi UmweltBau (2007), No. 5, pp. 12 – 17 [*Monitoring of GRP-jacking pipes with the online control and simulation program CoJack*]
- Stein, R.; Cakmak, H.: Zustand und Sanierungsbedarf von Schächten. In: tis – Tiefbau, Ingenieurbau, Straßenbau (2007), No. 4, pp. 56 - 63 [*Condition of manholes and their demand for rehabilitation*]
- 2006 Stein, R.; Oettinghaus, H.; Falk, C.: Optimierte Rohrverlegung in offener Bauweise. In: tis – Tiefbau, Ingenieurbau, Straßenbau (2006), No. 12, pp. 22 - 25 [*Optimised pipe installation using the open-cut construction method*]
- Stein, R.; Brauer, A.: Rohrvortriebsarbeiten (ATV DIN 18319). In: Hankammer, G.; Mentlein, H. (eds.): Abnahme von Bauleistungen – Tiefbau. Erkennen und Beurteilen von Planungs- und Ausführungsmängeln. Köln : Verlagsges. Müller, 2006, pp. 304 - 316 [*Pipe drilling works*]
- Stein, R.; Cordel, H.; Brauer, A.: Kommen wir dem Universalschild näher?. In: tis – Tiefbau, Ingenieurbau, Straßenbau (2006), No. 10, pp. 36 - 40 [*Are we approaching the universal shield?*]
- Stein, R.; Oettinghaus, H.: Abdichtung von Rohrverbindungen in Kanalisationen durch Injektionen. In: Venzmer, H. (ed.): Injektionsmittelabdichtung: Vorträge 7. Dahlberg-Kolloquium Wismar 2006. Berlin: Bauwesen, 2006 (Schriftenreihe Altbauinstandsetzung 12), pp. 107 - 116 [*Sealing of pipe joints in sewer networks by injections*]
- Stein, R.; Cakmak, H.; Neumann, M.: Bedarfs- und zustands-orientierte Reinigung. In: bi UmweltBau (2006), No. 6, pp. 51 – 57 [*Demand- and condition-oriented cleaning*]
- Beckmann, D.; Stein, R.: Statische Online-Überwachung von Rohrvortrieben. In: Straßen- und Tiefbau (2006), No. 6, pp. 12 - 16 [*Static online supervision of pipe jackings*]
- Stein, R.; Uhlenbroch, A.: STATUS Kanal. In: Herz, R. (publ.); Lehrstuhl Stadtbauwesen der TU Dresden (org.): Beiträge zum 7. Kolloquium Stadtbauwesen am 27.01.2006 zum Thema Alterungsmodelle für Abwasserkanäle (Dresden 2006). – Original contributions (CD-ROM)

2005

Stein, R.; Cakmak, H.: Erstellung bedarfsorientierter Reinigungspläne für Entwässerungssysteme auf Grundlage der prEN 14654-1. In: Schriftenreihe Inst. f. Rohrleitungsbau Oldenburg, Bd. 30. Essen : Vulkan, 2006, pp. 342 - 353 [*Creation of demand-oriented cleaning plans for drainage systems based on prEN 14654-1*]

Stein, R.; Brauer, A., Bis, J.: Renovierung mit dem Wickelrohrverfahren. In: bi UmweltBau (2005), No. 12, pp. 90 - 95 [*Renovation by the lining method with spirally wound pipes*]

Stein, R.: UNITRACC präsentiert sich in neuem Design. Lehr-, Lern- und Arbeitsplattform mit erweiterten Inhalten am Start. In: tis-Tiefbau, Ingenieurbau, Straßenbau (2005), No. 10, pp. 46 - 49 [*UNITRACC's new design. Learning, teaching and working platform with extended content starts*]

Stein, R.; Stein, D.; Trujillo, R.: Entwicklung einer Kanalsanierungsstrategie auf der Grundlage von Substanzprognosen. In: SES - Schriftenreihe. Bd. 3. Stuttgart : Private publishing house, 2005, pp. 102 - 118 [*Development of sewer rehabilitation strategies based on substance prognosis*]

Stein, R.: Präventive Reinigungsstrategien am Beispiel von Feststoffrückhalt aus Straßenabläufen. In: Ber. Wassergüte- u. Abfallwirtschaft TU München (2005), No. 185, pp. 123 - 143 [*Preventive cleaning strategies considering as example solid support from street discharge*]

Lipkow, A.; Stein, R.; Trujillo, R.: Saving water resources by leakage reduction strategies using a holistic management approach. In: Regional Centre on Urban Water Management RCUWM – Tehran / Ministry of Regional Municipalities, Environment and Water Resources, Oman / Inter – Islamic Network on Water Resources Development and Management, Jordan / United Nations Educational, Scientific and Cultural Organization UNESCO (org.): Int. Workshop Public Participation Awareness and Inform. Exchange f. Water Resources Developm. and Management (Muscat - Sultanate of Oman 2005). – Original contributions

Stein, R.; Prinz, G.: New Methods of electronic knowledge transfer. In: Int. Soc. f. Trenchless Technology ISTT (org.): NO DIG 2005 (23rd Int. Conf. a. Exh. Rotterdam 2005). – Original contributions (CD-ROM)

Trujillo, R.; Stein, R.: Failure analysis and condition assessment of sewers and mains using fuzzy-logic. In: Int. Soc. f. Trenchless Technology ISTT (org.): NO DIG 2005 (23rd Int. Conf. a. Exh. Rotterdam 2005). – Original contributions (CD-ROM)

Stein, R.; Lipkow, A.: Economic consequences of incorrect inspection and network data. In: Int. Soc. f. Trenchless Technology ISTT (org.): NO DIG 2005 (23rd Int. Conf. a. Exh. Rotterdam 2005). – Original contributions (CD-ROM)

Beckmann, D.; Stein, R.; Fabri, T.: Statische Onlineüberwachung von Rohrvortrieben. In: Baublatt (2005), No. 53, pp. 12 -15 [*Static online-control of pipe jackings*]

Stein, R.; Trujillo, R.: Vorausschauende Sanierungsplanung von Entwässerungssystemen auf der Basis konsistenter und stabiler Prognosemodelle. In: KA - Korrespondenz Abwasser (2005), No. 6, pp. 709 - 718 [*Anticipatory rehabilitation planning of drainage systems on the basis of consistent and solid forecast models*]

Beckmann, D.; Stein, R.; Fabri, T.: CoJack – statische Online-Überwachung von Rohrvortrieben. In: tis – Tiefbau, Ingenieurbau, Straßenbau (2005), No. 6, pp. 28 - 32 [*CoJack – static online control of pipe jackings*]

Stein, R.; Brauer, A.; Pier, J.: Vortriebsbegleitende Online – Kontrolle von Bentonitsuspensionen zur Stützung der Orts-brust bei Rohrvortrieben. In: tis – Tiefbau, Ingenieurbau, Straßenbau (2005), No. 4, pp. 12 - 17 [*Online control of bentonite suspensions for heading face support of pipe jacking during jacking*]

Trujillo, R.; Stein, R.; Lipkow, A.: Prognosegestützte Inspektions- und Sanierungsplanung bei Abwassernetzen am Beispiel eines Projektes. In: Schriftenreihe Inst. f. Rohrleitungsbau Oldenburg. Bd. 29. Essen: Vulkan Verlag, 2005, pp. 546 - 555 [*Inspection and rehabilitation planning of sewer networks on the basis of prognoses exemplified by a project*]

Stein, R.; Brauer, A.: Nachhaltigkeit im Kanalbau – Neuere Erkenntnisse zum Rohrwerkstoffvergleich. In: Schriftenreihe Inst. f. Rohrleitungsbau Oldenburg. Bd. 29. Essen : Vulkan Verlag, 2005, pp. 342 - 347 [*Sustainability in sewer construction – New findings with regard to the comparison of materials*]

Stein, R.; Brauer, A.: Eine interessante Alternative. In: bi UmweltBau (2005), No. 1, pp. 46 - 50 [*An interesting alternative*]

Stein, R.; Trujillo, R.; Ghaderi, S.: Inspektions- und Bestandsdaten von Entwässerungssystemen – Qualitätssicherung durch analytische Plausibilitätsprüfungen. In: tis – Tiefbau, Ingenieurbau, Straßenbau (2005), No. 1 - 2, pp. 32 - 35 [*Inspection and stock data of drainage systems – quality assurance by means of analytic plausibility checks*]

2004

Stein, R.; Brauer, A.: Einsatz von hydraulisch gebundenen Verfüllbaustoffen zur Rückverfüllung von Leitungsgräben im Kanalbau. In: abwasserREPORT (2004), No. 4, pp. 14 - 15 [*The use of hydraulically bonded filling materials for the backfill of utility trenches in sewer construction*]

Stein, R.: Bewertungsmethoden für zustandsorientierte Investitionsstrategien durch Einsatz von schadensspezifischen Alterungsmodellen. In: Int. Soc. f. Trenchless Technology ISTT (Veranst.): NO DIG 2004 (22nd Int. Conf. a. Exh. Hamburg 2004).– Original contributions [*Evaluation methods for condition-oriented investment strategies by using damage-specific ageing models*]

Beckmann, D.; Stein, R.: Mathematische Simulation von Rohrbeanspruchungen bei schwierigen Vortriebsstrecken. In: Int. Soc. f. Trenchless Technology ISTT (Veranst.): NO DIG 2004 (22nd Int. Conf. a. Exh. Hamburg 2004). – Original contributions, [*Mathematic simulation of pipe loads at demanding pipe jacking sections*]

Stein, R.; Trujillo, R.; Lipkow, A.: "STATUS Sewer" – A holistic model for efficient net management based on section-specific ageing prognoses. Published in: Int. Soc. f. Trenchless Technology ISTT (org.): NO DIG 2004 (22nd Int. Conf. a. Exh. Hamburg 2004). – Original contributions

Stein, R.; Prinz, G.: KSI_{Underground} – Kommunale Serviceplattform für Abwasser-Infrastrukturen. In: Fähnrich, K.-P.; Jantke, K. P.; Wittig, W. S. (eds.): Von e-Learning bis e-Payment 2004. Das Internet als sicherer Marktplatz (12. Leipziger Informatik-Tage LIT '04 Leipzig 2004). Berlin : Akad. Verl.-Ges. Aka, 2004. – Original contributions, pp. 38 - 46 [*KSI_{Underground} – Communal service platform for sewage-infrastructures*]

Stein, R.; Trujillo, R.; Lipkow, A.: Bestimmung der Haltungssubstanz – die Lösung für eine effektive Kanalsanierung. In: Verb. Dt. Rohr- u. Kanal-Technik - Unternehmen e.V. VDRK (Veranst.): X. VDRK-Fachseminar (Leipzig 2004). – Original contributions [*Determination of the section substance – the solution for an effective sewer rehabilitation*]

Stein, R.; Trujillo, R.: Evaluation methods of survival-capacity-oriented investment strategies of drain and sewer systems by the use of damage-specific aging models. Published in: Amer. Soc. of Civ. Eng. ASCE (org.); Galleher, J. J. jr. (publ.); Stift, M. T. (publ.): Pipelines 2004 (San Diego 2004). Reston : ASCE, 2004. - Original contributions

Stein, R.; Trujillo, R.; Lipkow, A. T.: Optimierung des Kanalbetriebs auf Basis haltungsbezogener Substanzprognosen. In: Ernst & Sohn Special, Kanal- und Rohrleitungsbau (2004), No. 3 Sanierung von Kanälen und Rohrleitungen, pp. 11 - 17 [*Optimisation of the sewer operation on the basis of section-based substance prognoses*]

Stein, R.: Trends und Entwicklungen der Zustandserfassung. In: bi UmweltBau (2004), No. 3, pp. 64 - 72 [*Trends and developments of condition acquisition*]

Stein, R.; Trujillo, R.; Lipkow, A.: Optimierung des Kanalbetriebes auf Basis haltungsbezogener Substanzprognosen. In: MUNLV NRW (org.), IKT (org.), ISA der RWTH Aachen (org.): Entwicklungen in der Kanalisationstechnik (Köln 2004). – Original contributions [*Optimisation of the sewer operation on the basis of section-based substance prognoses*]

Stein, R.: KSI_{Underground} – Kommunale Serviceplattform für Abwasser-Infrastrukturen. In: Wimmer, M. A. (ed.); Oesterr. Comp. Ges. OCG (org.): e | GOV Days: state-of-the-art 2004 (3rd e | GOV Days Wien 2004). Wien: OCG, 2004, pp. 62 - 74. - OCG – Schriftenreihe 177 [*KSI_{Underground} – Municipal service platform for waste water infrastructures*]

- Stein, R.; Trujillo, R.: Strategieentwicklung zum Betrieb und Unterhalt von Entwässerungssystemen - lassen sich die Aufgaben kostengünstig managen? In: Schriftenreihe Inst. f. Rohrleitungsbau Oldenburg (2004). Bd. 28. Essen: Vulkan, 2004. [*Development of strategies for the operation and maintenance of drainage systems – can the tasks be managed competitively?*]
- Stein, R.; Trujillo, R.; Lipkow, A.: Infrastruktur erhalten mit immer weniger Geld. In: Abwassertechn. Vereinigung ATV (org.): 3. ATV - Sanierungstage (Feuchtwangen 2004). – Original contributions, [*Preserve infrastructures with less money*]
- Stein, R.; Prinz, G.: KSI_{Underground} – Kommunale Serviceplattform für Abwasser-Infrastrukturen. In: Schrenk, M. (ed.); Competence Center of Urban and Regional Planning CORP, Ver. z. Förderung u. Erforsch. d. Stadtplanung u. Regionalentw. i. d. Inform.ges. (org.): CORP 2004 & Geo Multimedia 04 Computergestützte Raumplanung (9. Symp. z. Rolle d. Inform.techn. i. d. Stadt- u. Raumplanung sowie z. d. Wechselwirkungen zw. realem u. virtuellem Raum Wien 2004). Wien : Inst. f. EDV-gestützte Methoden in Architektur u. Raumplanung, 2004. – Original contributions [*KSI_{Underground} – Municipal service platform for sewer infrastructures*]
- Stein, R.: Effektiver Kanalnetzbetrieb durch optimierte Netzinstandhaltung mit STATUS - Kanal. Wasserwirtschaftsinitiative NRW, NRW Referenzen Wasserwirtschaft, Unternehmensindex, Prof. Dr.-Ing. Stein & Partner GmbH, 2004 – www.wasser.nrw.de/687.html [*Effective operation of sewer networks by optimised network maintenance via STATUS sewer*]
- 2003 Stein, R.: A new qualification concept for sewer and pipeline construction based on an innovative network-based solution for virtual teaching, learning and working. In: Amer. Soc. of Civ. Eng. ASCE (org.); Najafi, M. (ed.): Pipelines 2003 (ASCE Int. Conf. Pipeline Eng. and Constr. Baltimore 2003). Reston : ASCE, 2003. – Original contributions, pp. 1449 - 1458
- 2000 R. Stein: Moderne Werkzeuge – Planerische Aufgaben im Zuge der Kanalinstandhaltung werden immer komplexer. Welchen Nutzen bieten hier integrierte Softwarelösungen? In: der gemeinderat (2000), No. 12, p. 46 [*Modern tools – Planning tasks with regard to sewer maintenance are becoming more and more complex. Which benefit do integrated software solutions offer?*]
- 2000 Stein, R.: Multimediales Informationssystem auf der Basis des Fachbuches "Instandhaltung von Kanalisationen" In: Hamburg Messe und Congress GmbH (org.): 6. Int. Kongr. Leitungsbau 2000. Hamburg : Private publishing house, 2000. – Original contributions, pp. 612 - 621 [*Multimedia information system based on the reference book "Rehabilitation and Maintenance of Drains and Sewers"*]
- Stein, D.; Stein, R.: Fachinformationssystem - Instandhaltung von Kanalisationen (2 CD-ROM). Berlin : Ernst & Sohn, 2000 [*Technical information system - Maintenance of sewer systems (2 CD-ROM)*]

**Curriculum Vitae
Dr.-Ing. Robert Stein**

- 1997 Stein, R.: Der GSTT-Leitfaden als multimediales, wissensbasiertes Informationssystem. In: Hamburg Messe und Congress GmbH (org.): 5. Int. Kongr. Leitungsbau 1997. Hamburg : Selbstverlag, 1997. – Original contributions, pp. 815 - 827 [*The GSTT-guideline as a multimedia- and knowledge-based information system*]
- 1995 Sener, E. M.; Stein, R.: Mini-Horizontal Directional Drilling Manual. Dep. Constr. Techn., Purdue School of Eng. a. Techn., Indiana University - Purdue University at Indianapolis IUPUI : Private Publishing House, 1995
- Lectures (selection)**
- 2009 Stein, R.: The Construction Site on Your Desktop – Amazing Learning Success in Transferring Theory into Practice. Online Educa Berlin, December 2-4, 2009
- Stein, R.: Rehabilitation of Water and Force Mains, Promoting Trenchless Technology in Middle East, Abu Dhabi, Nov. 9th – 11th 2009,
- Stein, R.: Understanding Calculations and Monitoring of Jacking Forces and Stresses, Promoting Trenchless Technology in Middle East, Abu Dhabi, Nov. 9th – 11th 2009
- Stein, R.: The 5th transport alternative for pipeline-based freight transportation in congested urban areas and mega-cities, 10th Transportation Forum, Istanbul, Turkey, 27. Sept. – 01. Oct. 2009
- Stein, R.: Understanding calculations and monitoring of jacking forces and stresses: lecture / 2nd ANNUAL TRENCHLESS TECHNOLOGY SUMMIT, Abu Dhabi, 2009
- Stein, R.: Evaluating requirements of jacking pipes and joints: lecture / 2nd ANNUAL TRENCHLESS TECHNOLOGY SUMMIT, Abu Dhabi, 2009
- 2008 Stein, R.: Saving Water Resources by Leakage Reduction Strategies Using an Holistic Network Management: lecture / Achieving 24 x 7 Continuous Water Supply, 10th International Conference 11–12th January, 2008 – Mumbai, India
- Stein, R. Optimierung von Investitionsentscheidungen beim Asset-Management von leitungsgebundenen Infrastrukturen, „Wayss & Freytag am Donnerstag“, Frankfurth, 2008 [*Optimization of investment decisions for asset-management of pipeline bound infrastructures*]
- Stein, R. : KSI Underground – kommunale Serviceplattform für Abwasserinfrastrukturen, KGSt FORUM, Bremen, 2008 [*KSI Underground –Service platform for municipal wastewater infrastructures*]
- 2007 Stein, R.: Strategien für die Sanierung der Wasserverteilungsnetze und ihre Konsequenzen für die Kosten der Trinkwasserversorgung: lecture / REHATEC-WI 2007. Duisburg, 2007-10-25 [*Strategies for the rehabilitation of water networks and their effects on cost trends*]
- Stein, R.: Nachhaltigkeit in der Abwasserentsorgung: lecture / Infrastrukturtag 2007 & 5. Mitteldeutsche Fachtagung „Kanalbau – Kanalsanierung“. Leipzig, 2007-06-21 [*Sustainable sanitation and sewage disposal concepts*]

- Stein, R.: Innovative ways for condition and asset-assessment – a basic step for realistic life cycle analysis : lecture / NO DIG India 2007. New Delhi, 2006-03-29
- Stein, R.: Need of human resource development for TT industry : lecture / NO DIG India 2007. New Delhi, 2007-03-29
- Stein, R.: Why asset management after all? : lecture / NO DIG India 2007. New Delhi, 2007-03-28
- Stein, R.: Trenchless technology for the sustainable supply and disposal in infrastructure of megacities : key note adress / NO DIG India 2007. New Delhi, 2007-03-28
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Dr.-Ing. Robert Stein**

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- Stein, R.: Development of technologies to support worker training and construction planning education : lecture / Purdue University. Indianapolis, 1995

Awards

- 2005 NO DIG-Award by the International Society for Trenchless Technology (ISTT) for outstanding projects in the area sewer- and pipeline construction, category: "Scientific Research and further Training" for the information-, learning- and working-platform UNITRACC
- 2004 eureleA 2004; European e-Learning Award for best practice – examples of innovative further education and training, category "small enterprises" for the e-learning - project "Go2Learning / UNITRACC"
- 2000 NO DIG-Award by the International Society for Trenchless Technology (ISTT) for the "Technical Information System Rehabilitation and Maintenance of Drains and Sewers"
- Federal Laureate at the LERNET – competition of the German Federal Ministry of Economy and Technology (BMWi) with the project "Go2Learning"