

業績目録(庄子哲雄)

著者	東北大学史料館
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庄子哲雄教授業績目録

平成 24 年 3 月
東北大学史料館
(著作目録第 1181 号)

庄子哲雄教授略歴

生年月日 昭和22年11月16日
本籍地 宮城県
職名 教授
所属 東北大学大学院工学研究科附属エネルギー安全科学国際研究センター
破壊物理化学研究部門 エネルギー材料長期信頼性研究分野

最終学歴

昭和45年3月 東北大学工学部機械工学科卒業
昭和47年3月 東北大学大学院工学研究科機械工学専攻 修士課程修了
昭和50年3月 東北大学大学院工学研究科 機械工学専攻 博士課程修了

職歴

昭和50年4月～昭和58年9月 東北大学助手 工学部一般工学教室
昭和57年5月～昭和58年8月 英国 Newcastle upon Tyne 大学
金属及び材料科学科 博士研究員
昭和58年9月～昭和63年3月 東北大学助教授 工学部附属材料強度研究施設
昭和63年3月～平成元年3月 東北大学教授 工学部機械工学第二学科
材料計測・評価学研究室
平成元年3月～平成8年2月 東北大学教授 工学部附属破壊力学応用研究施設
破壊力学基礎部門
平成6年4月～平成6年9月 米国 Massachusetts Institute of Technology
原子力工学科 客員教授
平成8年2月～平成10年3月 東北大学教授
工学部附属破壊力学応用研究施設長
平成10年4月～平成11年3月 東北大学教授
大学院工学研究科附属破壊力学応用研究施設長

平成11年4月～平成16年3月	東北大学教授 大学院工学研究科 附属破壊制御システム研究施設長
平成12年4月～平成14年3月	東北大学 評議員
平成15年4月～平成16年3月	東北大学 学務審議会副委員長、 教育担当特別補佐、研究推進審議会研究情報委員会 委員及び研究推進室室員
平成16年4月～平成17年3月	東北大学教授 エネルギー安全科学国際研究センター長
平成16年4月～平成17年3月	東北大学 工学研究科副研究科長
平成17年4月～平成18年11月	東北大学 理事 (研究担当)
平成17年4月～平成20年11月	東北大学教授 大学院工学研究科 (併任)
平成18年11月～平成20年3月	東北大学 理事 (研究・国際交流担当)
平成20年4月～現在に至る	東北大学教授 大学院工学研究科 (併任)
平成20年4月～平成22年3月	東北大学教授 大学院工学研究科
平成20年4月～平成23年3月	東北大学 総長顧問
平成20年12月～現在に至る	東北大学 ディスティングイッシュトプロフェッサー
平成21年6月～現在に至る	東北大学 日仏ジョイントラボラトリー共同所長 東北大学教授 未来科学技術共同研究センター (併任)
平成21年9月～平成21年10月	フランス INSA de Lyon 客員教授
平成23年9月～平成23年10月	フランス INSA de Lyon 客員教授
平成24年3月	東北大学を定年退職

学 位

昭和50年3月	工学博士 (東北大学) 「大規模降伏不安定破壊に関する研究」
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受 賞

昭和52年3月	米国腐食学会 (NACE International) A.B.Campbell Award
昭和58年2月	日本機械学会奨励賞
平成2年4月	日本機械学会論文賞
平成2年10月	日本地熱学会論文賞
平成7年3月	日本機械学会東北支部技術研究賞
平成10年3月	米国腐食学会 (NACE International) W. R. Whitney Award
平成10年11月	日本機械学会材料力学部門賞業績賞
平成13年3月	日本機械学会フェロー
平成13年3月	ASTM (米国材料試験・評価学会) ASTM 賞年間最優秀論文賞
平成14年10月	日本機械学会材料力学部門国際交流表彰
平成15年6月	日本溶射協会論文賞
平成15年12月	Institute of Theoretical and Applied Mechanics SB Russian Academy of Science, First Prime in the competition on fundamental investigations in the Institute of Theoretical and Applied Mechanics for 2003
平成16年6月	日本溶射協会論文賞 (丹野昌利, 小川和洋, 庄子哲雄, 左相玉, 大森明, レーザー再溶融処理による熱遮へいコーティングの界面強度改善)
平成16年12月	日本溶射協会優秀賞

平成18年 5月	日本非破壊検査協会奨励賞（庄子哲雄，小川和洋，鈴木美紀子，高周伝送特性によるセラミックス材料およびセラミックコーティングの非破壊評価）
平成18年 6月	Institute of Metal Research（中国科学院金属研究所）Lee Hsun Award
平成19年10月	日本機械学会材料力学部門賞功績賞
平成19年10月	日本機械学会創立110周年記念功労者表彰
平成21年10月	経済産業省原子力安全・保安院原子力安全功労者
平成23年 1月	フランス国立応用科学院リヨン校（INSA de Lyon）名誉博士号

学会等における活動（役職等）

Advisory Board of Materials Chemistry and Physics（平成 4年 2月）
社団法人日本プラントメンテナンス協会 疲労損傷計測・評価委員会主査 （平成 6年 4月～平成 8年 3月）
社団法人日本電気協会 高速炉高温構造設計調査特別委員会委員 （平成 6年 6月～平成 9年 3月）
社団法人日本非破壊検査協会 電位差法研究会主査（平成 6年 9月～平成12年 3月）
Honored Member of Russian International Academy of Engineering（平成 6年10月）
財団法人発電設備技術検査協会 実用原子力発電設備環境中材料等疲労信頼性実証 試験実施委員会委員（平成 6年11月～平成 9年 3月）
社団法人腐食防食協会 理事（平成 8年 1月～平成10年 3月）
社団法人日本設備管理学会 評議員（平成 9年 6月～平成11年 6月）
社団法人日本工学教育協会 国際委員会委員（平成 9年10月～平成10年 7月）
社団法人日本機械学会 材料力学部門副部門長（平成10年 4月～平成11年 3月）
社団法人日本非破壊検査協会 評議員（平成10年 4月～平成12年 3月）
社団法人腐食防食協会 東北支部長（平成10年 4月～平成12年 3月）
社団法人腐食防食協会 評議員（平成10年 4月～平成12年 3月）
社団法人日本機械学会 材料力学部門部門長（平成11年 4月～平成12年 3月）
社団法人日本プラントメンテナンス協会 TPM 優秀賞審査委員（平成11年 4月～現在）
社団法人日本機械学会 評議員（平成12年 4月～平成13年 3月）
社団法人日本工学教育協会 国際委員会委員（平成12年 9月～平成14年 7月）
財団法人発電設備技術検査協会 照射誘起応力腐食割れ評価技術開発委員会 （平成12年12月～平成14年 3月）
社団法人日本機械学会 論文集編集委員会委員（平成13年 4月～平成14年 3月）
社団法人日本機械学会 発電用設備規格委員会委員（平成13年 4月～平成17年12月）
社団法人日本機械学会 評議員（平成14年 4月～平成16年 3月）
社団法人日本機械学会 理事（平成14年 4月～平成16年 3月）
社団法人日本電気協会 原子力規格委員会構造分科会委員（平成14年 4月～現在）
社団法人日本機械学会広報情報部会 部会長（平成15年 4月～平成16年 3月）
社団法人腐食防食協会 原子力発電所 SCC 試験規格化検討委員会（SCCT） （平成15年12月～平成16年3月）
Expert Panel Member of The US Nuclear Regulatory Commission, Proactive Materials Degradation Assessment（平成16年 4月～平成20年）
社団法人日本非破壊検査協会 PD 諮問委員会委員（平成18年 2月～現在）
社団法人日本溶接協会 原子力研究委員会中立委員（平成18年 4月～現在）
社団法人日本非破壊検査協会 評議員（平成18年 5月～平成20年 5月）
社団法人日本機械学会 日本機械学会賞審査委員（平成18年12月～平成19年12月）
財団法人発電設備技術検査協会 理事（平成19年 4月～現在）
NPO 法人日本保全学会 理事（副会長）（平成19年 7月～現在）

日本学術会議 日本学術会議連携委員 (平成20年10月～現在)
社団法人日本溶接協会 講師 (平成20年11月)
NPO 法人日本保全学会 東北・北海道支部支部長 (平成21年4月～現在)
社団法人腐食防食協会 原子力関連 SCC 試験法の JIS 規格化委員会委員長
(平成21年4月～現在)
社団法人腐食防食協会 講演会講師 (平成21年7月)
NPO 法人日本保全学会 EJAM 論文委員会委員長 (平成21年10月～現在)
独立行政法人日本学術振興会 科学研究費委員会専門委員 (平成21年12月～現在)
日本設備管理学会 評議員・東北支部幹事 (平成22年4月～現在)
NPO 法人日本保全学会 International Seminar 組織委員 (平成22年8月)
社団法人日本機械学会 校閲委員 (平成23年5月～現在)
公益社団法人日本材料学会 講演会講師 (平成23年5月24日)

社会における活動

日本原子力研究所 構造安全研究委員会専門委員 (昭和58年10月～平成5年3月)
日本原子力研究所 船舶用炉研究委員会専門委員 (昭和63年12月～平成4年3月)
新エネルギー産業技術総合開発機構 高温岩体検討委員会・貯溜層部会委員
(平成元年5月～平成5年3月)
科学技術庁金属材料研究所 超伝導・極低温構造材料 WG 委員
(平成元年12月～平成4年3月)
日本原子力研究所 核融合炉研究委員会専門委員 (平成2年2月～平成10年3月)
文部省・核融合科学研究所 共同研究員 (平成2年2月～平成2年3月)
通産省工業技術院 流動研究員 (東北工業試験所) (平成2年12月～平成2年12月)
通産省工業技術院 流動研究員 (公害資源研究所) (平成3年7月～平成3年7月)
通産省工業技術院 水反応研究員 (公害資源研究所) (平成3年7月～平成3年7月)
日本原子力研究所 嘱託 (平成4年4月～平成10年3月)
宇宙開発事業団 客員開発部員 (平成4年7月～平成5年3月)
社団法人日本溶接協会 平成4年度 PSD 小委員会委員 (平成4年8月～平成5年3月)
岩手大学 非常勤講師 (平成4年10月～平成5年3月)
日本原子力研究所 原子力材料研究委員会専門委員 (平成5年4月～平成7年3月)
日本原子力研究所 機器信頼性研究委員会委員 (平成5年4月～平成10年3月)
科学技術庁原子力委員会 核融合会議 ITER/EDA 技術部会委員
(平成5年5月～平成6年3月)
日本原子力研究所 船舶用炉研究委員会専門委員 (平成6年6月～平成7年3月)
日本原子力研究所 核融合炉材料研究委員会専門委員 (平成6年11月～平成7年3月)
財団法人発電設備技術検査協会 実証試験実施委員会委員 (平成6年11月～平成8年3月)
環境庁国立環境研究所 兼務 (平成7年2月～平成7年3月)
財団法人東北産業技術開発協会 産学協同研究助成審査委員会委員
(平成7年7月～平成11年3月)
財団法人宮城県高度技術振興財団 地域技術企業化助成審査委員会委員
(平成7年7月～平成11年3月)
財団法人宮城県高度技術振興財団 債務保証審査委員会委員
(平成7年7月～平成9年3月)
大阪大学 非常勤講師 (平成7年10月～平成8年3月)
高知県工業技術センター 客員研究員 (平成8年5月～平成9年3月)
東北電力株式会社研修センター専門部 講師 (平成9年8月～平成10年7月)
財団法人原子力安全研究協会 核融合実験炉構造基準案検討専門委員会委員
(平成10年10月～平成11年3月)

経済産業省原子力安全・保安院 総合資源エネルギー調査会 臨時委員
(平成14年4月～現在)

大学評価・学位授与機構大学評価委員会 評価員 (平成15年6月～平成17年6月)

独立行政法人原子力基盤機構 材料評価技術検討委員会委員 (平成16年2月～平成22年9月)

独立行政法人原子力基盤機構 SCC 技術検討会委員 (平成16年2月～現在)

独立行政法人原子力基盤機構 材料研究企画検討会委員 (平成16年2月～平成18年1月)

独立行政法人日本学術振興会 「化学プラントのリスクベース保全技術」先導的研究
開発委員会委員 (平成16年3月～平成19年2月)

独立行政法人原子力基盤機構 構造成健全性評価技術調査検討会委員 (平成16年3月～現在)

経済産業省 総合資源エネルギー調査会原子力安全・保安部会臨時委員
高経年化対策検討委員会委員 (平成16年12月～現在)

Scientific Advisory Committee Member of European Commission, PERFECT Project
(平成17年3月～平成20年6月)

財団法人かき研究所 理事 (平成17年4月～平成20年3月)

財団法人みやぎ産業振興機構 理事 (平成17年5月～平成22年3月)

経済産業省東北経済産業局 東北地域産業創造戦略会議委員
(平成17年5月～平成20年9月)

株式会社東北テクノアーチ 取締役 (平成17年6月～平成21年6月)

文部科学省研究振興局 先端融合領域イノベーション促進拠点事業 (仮称) に関する
懇談会委員 (平成17年11月～平成18年3月)

独立行政法人原子力基盤機構 技術情報調整委員会委員 (平成17年12月～現在)

財団法人青葉工学振興会 非常勤研究員 (平成18年1月～現在)

株式会社ツムラ シンポジウム討議への参加 (平成18年2月)

株式会社富士電機システムズ 委託調査員 (平成18年2月～平成18年11月)

財団法人東北大学研究教育振興財団 東北大学創立百周年記念事業推進実行委員会委員
および同常任実行委員会委員 (平成18年2月～平成20年2月)

独立行政法人科学技術振興機構 知的財産委員会委員 (平成18年3月～平成21年3月)

財団法人社会開発研究センター 非常勤理事 (平成18年5月～平成22年6月)

内閣府 高速増殖炉サイクルに関する専門家との意見交換会協力者 (平成18年5月)

経済産業省原子力安全・保安院 高経年化対策強化基盤整備事業
東北・北海道クラスター研究統括者 (事業名: 経年劣化事象の解明等)
(平成18年8月～現在)

株式会社トヨタ自動車 トヨタ技術会研究発表会技術指導員 (平成18年8月)

財団法人中華経済研究員 講演会講師 (平成18年9月)

独立行政法人原子力基盤機構 NEA-SCAP 運営検討会委員およびNEA-SCAP 運営検討会
SCC 作業会委員 (平成18年11月～平成22年10月)

SCC-WG, OECD-NEA Stress Corrosion Cracking and Cable Aging Project Member
(平成18年11月～平成22年3月)

大阪科学技術センター 講演会講師 (平成18年12月)

福島大学 外部評価委員会委員 (平成18年12月～平成19年3月)

株式会社三菱総合研究所 高経年化対策強化基盤整備事業総括検討会委員
(平成18年12月～現在)

株式会社ツムラ シンポジウム討議への参加 (平成19年2月)

株式会社東日本旅客鉄道 講演会講師 (平成19年2月)

東京農工大学 シンポジウムパネラー (平成19年2月)

東京農工大学 総合評価委員会委員 (平成19年2月～平成21年3月)

財団法人電力中央研究所 DH 最適化検討委員会主査 (平成19年6月～現在)

社団法人みやぎ工業会 第42回産学官交流大会パネルディスカッションパネリスト
(平成19年6月)

独立法人科学技術振興機構 原子力システム研究開発事業革新技術中間評価委員会委員
(平成19年7月～平成20年7月)

株式会社トヨタ自動車 トヨタ信頼性分野技術指導会指導員 (平成19年7月)

株式会社トヨタ自動車 トヨタ技術会研究発表会技術指導員 (平成19年7月)

株式会社三菱総合研究所 高経年化対策強化基盤整備事業 SCC 検討会主査
(平成19年9月～現在)

株式会社原子力安全システム研究所 国際シンポジウム講師および運営会議議長
(平成19年10月)

第7回 NDE 国際会議組織委員会委員 (平成20年1月～平成21年5月)

財団法人みやぎ産業振興機構 みやぎカーインテリジェント人材育成センター運営会議
議長 (平成20年1月～平成22年3月)

独立行政法人原子力基盤機構 SCC 技術検討会委員長 (平成20年2月～現在)

株式会社トヨタ自動車 トヨタ信頼性分野技術指導会指導員 (平成20年7月)

株式会社トヨタ自動車 トヨタ技術会研究発表会技術指導員 (平成20年7月)

EdF MAI, Scientific Partner (平成21年4月～現在)

株式会社産業科学システムズ 講師 (平成21年7月)

株式会社トヨタ自動車 トヨタ信頼性分野技術指導会指導員 (平成21年7月)

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株式会社三菱総合研究所 高経年化対策強化基盤整備事業
SCC メカニズム解明ロードマップ策定検討タスクフォース主査 (平成21年8月～現在)

財団法人エネルギー総合工学研究所 次世代軽水炉等技術開発連絡調整会議
BWR 分科会炉構材作業会委員 (平成22年3月～現在)

独立行政法人科学技術振興機構 基盤研究開発分野評価委員会委員
(平成22年7月～平成22年12月)

株式会社トヨタ自動車 トヨタ信頼性分野技術指導会指導員 (平成22年7月)

株式会社トヨタ自動車 トヨタ技術会研究発表会技術指導員 (平成22年7月)

財団法人みやぎ産業振興機構 みやぎカーインテリジェント人材育成センター運営会議
議長 (平成22年8月)

the member of the Editorial Board, Corrosion Science (平成22年8月～現在)

宮城県企業立地セミナー実行委員会 講師 (平成22年11月)

the member of the External Advisory Committee of WPI
(World Premier International Research Center Initiative)
[独立行政法人日本学術振興会 世界トップレベル研究拠点プログラム外部諮問委員]
(平成22年11月～現在)

独立法人日本学術振興会 科学研究費委員会専門委員 (平成22年12月～現在)

株式会社トヨタ自動車 トヨタ信頼性分野技術指導会指導員 (平成23年7月)

株式会社トヨタ自動車 トヨタ技術会研究発表会技術指導教授 (平成23年7月)

財団法人電力中央研究所 福島第一原子力発電所腐食対策検討会委員
(平成23年7月～現在)

IFRAM (International Forum on Reactor Aging Management) Steering Committee
[原子炉の経年劣化管理に関する国際フォーラム国際運営会議メンバー]
(平成23年8月～現在)

the member of the High Panel on Science for Development of UNESCO (平成23年9月～現在)

日本学術会議 会員 (平成23年10月～現在)

経済産業省 原子力安全・保安院 高経年化技術評価に関する意見聴取会委員
(平成23年11月～現在)

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