STAFF HANDBOOK

Name	**Dr. Muchlis, M.Pd.**		
Position	**Lecturer in Chemistry Education**		
Academic Career	**Degree**	**University**	**Year**
	Bachelor Degree (Chemistry Education)	IKIP Surabaya	1991-1996
	Master Degree (Natural Sciences Education)	Universitas Negeri Surabaya	1998-2001
	Doctoral Degree (Chemistry Education)	Universitas Negeri Malang	2015-2019
Employment	**Position**	**Employer**	
	Associate Professor	Universitas Negeri Surabaya – Indonesia	
Research and Development Project Over the Last 5 Years	**Title**	**Funder**	**Year**
	Implementasi Pembelajaran Berbasis Assessment as Learning pada matakuliah Kimia Dasar untuk Meningkatkan Keterampilan Metakognitif Mahasiswa	PNBP FMIPA Unesa	2021
	Penerapan Strategi Pemberian tugas *Online* dalam Upaya Meminimal Penularan Covid 19 pada Pembelajaran Stereo Kimia	PNBP FMIPA Unesa	2020
	Analisis Technological Pedagogical Content Knowledge (TPACK) Berbasis Teknologi Informasi dan Komunikasi (TIK) dengan Pendekatan Structural Equation Modeling (SEM) pada Mahasiswa Calon Guru Kimia *(Analysis of Technological Pedagogical Content Knowledge (TPACK) Based on Information and Communication Technology (ICT) with Structural Equation Modeling (SEM) Approach to Prospective Chemistry Teacher Students)*	PNBP FMIPA Unesa	2019
	Desain Model Laboratorium Virtual Kimia Anorganik Berbasis Blended Learning untuk Meningkatkan Literasi Kimia	Penelitian Strategis Nasional Institusi	2018

	(Design of Virtual Inorganic Chemistry Laboratory Model Based on Blended Learning to Improve Chemistry Literacy)		
	Pemberdayaan Kemampuan Berpikir Mahasiswa Unggulan Melalui Pengembangan Buku Ajar Asesmen Berbasis Pembelajaran Reading, Questioning, and Answering (RQA) *(Empowerment of Excel Students' Thinking Ability Through the Development of Assessment Textbooks Based on Reading, Questioning, and Answering (RQA) Learning)*	PNBP FMIPA Unesa	2018
	Pengembangan Perangkat Pembelajaran Matakuliah Pengembangan Media Pembelajaran Kreatif sebagai Model untuk Memfasilitasi lmplementasi Eco-Commitment di Jurusan Kimia FMIPA Unesa *(Learning tools Development of Creative Learning Media Development Course as a Model to Facilitate Fco-Commitment Implementation in Chemistry Department Faculty of Mathematics and Natural Sciences Universitas Negeri Surabaya)*	PNBP FMIPA Unesa	2018
	Pengembangan Perangkat Pembelajaran Matakuliah Pengembangan Media Pembelajaran Kreatif sebagai Model untuk Memfasilitasi lmplementasi Eco-Commitment di Jurusan Kimia FMIPA Unesa *(Learning tools Development of Creative Learning Media Development Course as a Model to Facilitate Fco-Commitment Implementation in Chemistry Department Faculty of Mathematics and Natural Sciences Universitas Negeri Surabaya)*	Penelitian Kebijakan FMIPA Unesa	2017
	Analisis Technological Pedagogical Content Knowledge (TPACK) Berbasis Teknologi Informasi dan Komunikasi (TIK) dengan Pendekatan Structural Equation Modeling (SEM) pada Mahasiswa Calon Guru Kimia	Penelitian Produk Terapan	2017

	(Analysis of Technological Pedagogical Content Knowledge (TPACK) Based on Information and Communication Technology (ICT) with Structural Equation Modeling (SEM) Approach to Prospective Chemistry Teacher Students)		
	Perbedaan Karakter Fisiko-Kimia Ekstrak Binahong Berbatang Merah dan Hijau *(Difference between Physical-Chemical Characteristics of Red and Green Trunked Binahong Extract)*	Penelitian Kebijakan FMIPA Unesa	2017
	Pengembangan Modul Conceptual Change untuk Konsep-Konsep Kimia yang Menyebabkan Miskonsepsi Tinggi pada Mahasiswa Calon Guru *(Development of Conceptual Change Modul for Chemical Concepts That Cause High Misconception in Prospective Teacher Students)*	Penelitian Kebijakan Pascasarjana Unesa	2017
	Pengembangan Modul Conceptual Change untuk Konsep-Konsep Kimia yang Menyebabkan Miskonsepsi Tinggi pada Mahasiswa Calon Guru *(Development of Conceptual Change Modul for Chemical Concepts That Cause High Misconception in Prospective Teacher Students)*	BOPTN	2016
	Desain Model Laboratorium Virtual Kimia Anorganik Berbasis Blended Learning untuk Meningkatkan Literasi Kimia *(Design of Virtual Inorganic Chemistry Laboratory Model Based on Blended Learning to Improve Chemistry Literacy)*	Hibah Bersaing (DIKTI)	2016
	Pemberdayaan Kemampuan Berpikir Mahasiswa Unggulan Melalui Pengembangan Buku Ajar Asesmen Berbasis Pembelajaran Reading, Questioning, and Answering (RQA) *(Empowerment of Excel Students' Thinking Ability Through the Development of Assessment Textbooks Based on Reading, Questioning, and Answering (RQA) Learning)*	Unggulan Perguruan Tinggi (DIPA)	2016
Community Service	**Title**	**Funder**	**Year**
	Pelatihan Keterampilan	Dana Kebijakan FMIPA	2021

Over The Last 5 Years	Argumentasi bagi Guru Kimia MGMP Sampang sebagai upaya Persiapan Keterampilan Abad 21		
	Pelatihan Penyusunan Soal Kimia Berorientasi Sebagai Alternatif Pemilihan Jenis Tes dalam Penyelenggaraan Tes *Online* di Era Pandemi Covid-19	Dana Kebijakan FMIPA	2020
	Pelatihan Pengembangan Instrumen Penilaian KPS Bagi Guru SMA Mapel Kimia di Kabupaten Sumenep	Dana Kebijakan FMIPA	2019
	Pelatihan Penulisan Artikel Ilmiah Berbasis Penelitian Tindakan Kelas (PTK) Bagi Guru Kimia SMA di MGMP Kimia SMA Kabupaten Kediri	Dana Kebijakan FMIPA	2018
	Pemantapan Kompetensi Profesional Guru Kimia di MGMP Kimia SMA Kabupaten Blitar	Dana Kebijakan FMIPA	2017
	Pelatihan Penilaian Keterampilan Proses Sains Bagi Guru Mapel Kimia di Kabupaten Banyuwangi	Dana Kebijakan FMIPA	2016
Industry Collaborations Over the Last 5 Years	**Title**	**Partner**	**Year**
Patents and Property Right	**Title**	**Patent ID**	**Year**
	Pengembangan Karir		2020
	Kimia Anorganik Unsur Transisi		2017
	Buku Kimia Anorganik Unsur-Unsur Golongan Utama (Main Group Elements in Inorganic Chemistry Book)	082917	2016
	Buku Assessmen (Assessment Book)	082604	2016
Important Publications Over the Last 5 Years	1. **Muchlis,** S. Ibnu, Subandi and S. Marfuah. 2020. Students' Result of Learning at Chemistry Department through Assessment of, for, and as Learning Implementation. *International Journal of Instruction, April 2020 Vol.13, No.2, pp. 165-178* 2. Rusly Hidayah, Dina Kartika Maharani, **Muchlis**. 2020. Pelatihan Penulisan Artikel Ilmiah Berbasis Penelitian Tindakan Kelas (PTK) Bagi Guru Kimia SMA di MGMP Kimia SMA Kabupaten Kediri. Jurnal ABDI, Vol. 5 No. 2, Halaman 107-110. 3. K. Dwiningsih, S. Poedjiastoeti and **Muchlis.** 2019. Analysis of Technological Pedagogical Content Knowledge (TPACK) Capabilities of Prospective Chemistry Teachers on Chemical Bonding Materials. *Proceedings of the National Seminar on Chemistry 2019 (SNK-19) Atlantis Press.* 4. **Muchlis,** S. Ibnu, Subandi and S. Marfuah. 2019. Relationships Between Perception toward Assessment with Learning Result of Student. *Atlantis Highlights in Chemistry and Pharmaceutical Science. volume 1. ISSN: 2590-3195, ISBN: 978-94-6252-877-2.*		

	5. D. K. Sari and **Muchlis.** 2018. Implementation Of Brainstorming Based on Learning Cycle 5-E Model to Complete Student Learning Outcome of X-Science Students on The Material of Electrolyte and Nonelectrolyte Solution in SMAN 1 Sidoarjo. *Unesa Journal of Chemical Education Vol. 7, No. 3 pp: 422-426.* 6. K. Dwiningsih, Sukarmin, **Muchlis,** and D. K. Maharani. 2018. Development of Virtual Laboratory Inorganic Chemistry of Main Elements Based on Blended Learning Using Pogil Strategy. *Advances in Engineering Research, Atlantis Press Vol. 171, ISSN: 2352-5401, ISBN: 978-94-6252-591-7.* 7. K. Dwiningsih, Sukarmin, **Muchlis,** and P. T. Rahma. 2018. Pengembangan Media Pembelajaran Kimia Menggunakan Media Laboratorium Virtual Berdasarkan Paradigma Pembelajaran Di Era Global (Development of Chemistry Learning Media by Using Virtual Laboratory Media Based on Learning Paradigms in the Global Era). *Kwangsan Jurnal Teknologi Pendidikan Vol. 6, No. 2, Online, ISSN: 2622-4283, Print ISSN: 2338-9184 10.31800/jtp.kw.v6n2.p156—176.* 8. R. Hidayah, S. Poedjiastoeti and **Muchlis.** 2018. Pemantapan Kompetensi Profesional Guru Kimia Di MGMP Kimia SMA Kabupaten Blitar Melalui Pelatihan Pembuatan Perangkat Pembelajaran Berbasis Inkuiri (Strengthening the Professional Competence of Chemistry Teachers at the High School Chemistry Teacher Organization in Blitar District through Training in the Making of Inquiry-Based Learning Tools). *Jurnal Abdi Vol. 4, No. 1, pp: 41-44* 9. **Muchlis,** S. Ibnu, Subandi and S. Marfuah. 2018. Student's Perception Of Chemistry Department Towards Assessment Approach. *Proceeding of International Conference on Science and Technology (ICST), Bali, 18-19 October 2018.* 10. **Muchlis.** 2017. Some Mistake Which often Happened in Simulation of Inductive Models Implementing. *Journal of Chemistry Education Research (JCER) Vol. 1, No. 1, pp. 22-26, ISSN: 2549 – 1644.* 11. Rahmatulloh, P. Novitasari, Z. A. Ukrima and **Muchlis.** 2017. Analysis Inhibiting Factor of Students Communication Skill Through Implementation Of NHT on Colloid Material. *Journal of Chemistry Education Research (JCER) Vol. 1, No. 2, pp. 41-48, ISSN: 2549 – 1644.* 12. **Muchlis,** R. Agustini and H. Nasrudin. 2017. Pelatihan Penilaian Keterampilan Proses Sains Bagi Guru SMA Mapel Kimia di Kabupaten Banyuwangi (Science Process Skills Assessment Training for Chemistry Teachers in Banyuwangi High School). *Jurnal Abdi Vol. 2, No. 2 pp: 72-82* 13. D. A. Citra and **Muchlis.** 2017. Penerapan Model Pembelajaran Inkuiri Terbimbing untuk Melatihkan Kemampuan Literasi Sains Siswa pada Materi Kesetimbangan Kimia Kelas XI SMA Negeri 1 Manyar Gresik (Implementation of Guided Inquiry Learning Model to Train Students' Literacy Skill in Chemistry Equilibrium Manyar 1 High School Grade XI, Gresik). *Unesa Journal of Chemical Education Vol. 6, No. 1 pp: 102-110*. 14. Rusmini, **Muchlis,** and Sukarmin. 2017. Decrease of Heavy Metal Using Effective Microorganism 4 (EM4) as the Soil Bioremediation Effort. *Research Journal of Pharmaceutical, Biological and Chemical Sciences (RJPBCS) Vol. 8, No. 6.* 15. **Muchlis**, L. Yuanita and U. Azizah. 2016. Pelatihan Penilaian Autentik di MGMP Kimia SMA Kabupaten Magetan (Authentic Assessment Training at Chemistry Teacher Organization in Magetan High School). *Jurnal Abdi Vol. 1, No. 2, pp: 91-101.*

	16. Y. D. Wahyugie and **Muchlis.** 2016. Penerapan Model Problem Based Learning (PBL) pada Materi Pokok Larutan Elektrolit dan Nonelektrolit untuk Melatihkan Kemampuan Pemecahan Masalah Kelas X SMA Negeri 7 Kediri (Implementation of Problem Based Learning (PBL) Model on Electrolyte and Non-Electrolyte Solution Topic to Practice Problem Solving Skills of Kediri 7 Senior High School Grade X). *Unesa Journal of Chemical Education Vol. 5, No. 3, pp: 358-367.*		
Activities in Specialist Bodies Over the Last 5 Years	**Organization Role**	**Position**	**Period**
	Himpunan Kimia Indonesia (HKI)	Member	2010-Now