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 - Ditunda
 - Terkirim
 - Draf 19
 - Selengkapnya
 - Meet
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Institution	Universitas Negeri Yogyakarta
Participation	Presenter
Full Address	Kampus FT UNY Karangmalang, Depok, Sleman, Yogyakarta 55281
	Indonesia

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GS.AB-180 | DESIGN AND TESTING IMPACT ATTENUATOR ON FORMULA SAE FG17 GARUDA UNY

DESIGN AND TESTING IMPACT ATTENUATOR ON FORMULA SAE FG17 GARUDA UNY

Zainal Arifin, Sultan Gunawan

Automotive Education Department, Engineering Faculty, Yogyakarta State University

Abstract

Objective of this research to find out the design and testing of Impact Attenuator (IA) on the Formula SAE FG17 Garuda UNY. The method used in this research is using research and development model (R & D). Product development model used ADIIE development model (Analysis, Design, Development, Implementation, and Evaluating). Based on the result of impact attenuator test with dimension length 220 mm, width 250 mm, height 250 mm and using 1 mm with the aluminum plate material in Abaqus software, it can be seen that the result of "Total Energy of The output set" on the test 7777724 mJ at 0.0325 s. Furthermore, based on the results of the impact attenuator test using Universal Testing Machine tool, capable of absorbing energy of 7722.25 Joule, Peak deceleration on impact attenuator specimens is 28.212 g's, Average deceleration in this impact attenuator specimen is 15.908 g's, The shape change on anti-intrusion plate test is 21.4 mm. From the test result, the Impact attenuator fulfills the 2017 Formula SAE (T3.20 Impact Attenuator) regulation

Keywords : Impact Attenuator, Formula SAE
Topic : Science, Technology, Engineering, and Mathematics (STEM) Education
Type : Oral Presentation
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Zainal Arifin, Sultan Gunawan

Automotive Education Department, Engineering Faculty, Yogyakarta State University

Abstract

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- Keywords** : Impact Attenuator, Formula SAE
- Topic** : Science, Technology, Engineering, and Mathematics (STEM) Education
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1	GS.AB-127	Biology Education	Paralel Session
2	GS.AB-187	Biology Education	Paralel Session
3	GS.AB-585	Biology Education	Paralel Session
4	GS.AB-589	Biology Education	Paralel Session
5	GS.AB-600	Biology Education	Paralel Session
6	GS.AB-636	Biology Education	Paralel Session
7	GS.AB-66	Chemistry Education	Paralel Session
9	GS.AB-37	Current Issues in Educational Technology (CIE)	Paralel Session
10	GS.AB-38	Current Issues in Educational Technology (CIE)	Paralel Session
11	GS.AB-61	Current Issues in Educational Technology (CIE)	Paralel Session
12	GS.AB-95	Current Issues in Educational Technology (CIE)	Paralel Session
13	GS.AB-146	Current Issues in Educational Technology (CIE)	Paralel Session
14	GS.AB-173	Current Issues in Educational Technology (CIE)	Paralel Session
17	GS.AB-480	Current Issues in Educational Technology (CIE)	Paralel Session
19	GS.AB-506	Current Issues in Educational Technology (CIE)	Paralel Session
20	GS.AB-521	Current Issues in Educational Technology (CIE)	Paralel Session
21	GS.AB-591	Current Issues in Educational Technology (CIE)	Paralel Session
23	GS.AB-659	Current Issues in Educational Technology (CIE)	Paralel Session
25	GS.AB-284	Informatics and ICT at Higher Education (IHE)	Paralel Session
26	GS.AB-297	Informatics and ICT at Higher Education (IHE)	Paralel Session
27	GS.AB-519	Informatics and ICT at Higher Education (IHE)	Paralel Session
28	GS.AB-606	Informatics and ICT at Higher Education (IHE)	Paralel Session
29	GS.AB-613	Informatics and ICT at Higher Education (IHE)	Paralel Session
31	GS.AB-56	IT-Professional and Vocational Education in Information Technology (IVET)	Paralel Session
32	GS.AB-149	IT-Professional and Vocational Education in Information Technology (IVET)	Paralel Session
33	GS.AB-211	IT-Professional and Vocational Education in Information Technology (IVET)	Paralel Session
34	GS.AB-360	IT-Professional and Vocational Education in Information Technology (IVET)	Paralel Session
35	GS.AB-365	IT-Professional and Vocational Education in Information Technology (IVET)	Paralel Session

No	ABS ID	Topic	Session
36	GS.AB-460	IT-Professional and Vocational Education in Information Technology (IVET)	Paralel Session
37	GS.AB-475	IT-Professional and Vocational Education in Information Technology (IVET)	Paralel Session
38	GS.AB-493	IT-Professional and Vocational Education in Information Technology (IVET)	Paralel Session
39	GS.AB-504	IT-Professional and Vocational Education in Information Technology (IVET)	Paralel Session
40	GS.AB-535	IT-Professional and Vocational Education in Information Technology (IVET)	Paralel Session
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44	GS.AB-610	IT-Professional and Vocational Education in Information Technology (IVET)	Paralel Session
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46	GS.AB-675	IT-Professional and Vocational Education in Information Technology (IVET)	Paralel Session
47	GS.AB-16	Mathematics Education	Paralel Session
48	GS.AB-25	Mathematics Education	Paralel Session
49	GS.AB-103	Mathematics Education	Paralel Session
50	GS.AB-104	Mathematics Education	Paralel Session
51	GS.AB-106	Mathematics Education	Paralel Session
52	GS.AB-147	Mathematics Education	Paralel Session
53	GS.AB-167	Mathematics Education	Paralel Session
54	GS.AB-206	Mathematics Education	Paralel Session
55	GS.AB-474	Mathematics Education	Paralel Session
57	GS.AB-490	Mathematics Education	Paralel Session
58	GS.AB-492	Mathematics Education	Paralel Session
59	GS.AB-514	Mathematics Education	Paralel Session
60	GS.AB-525	Mathematics Education	Paralel Session
61	GS.AB-563	Mathematics Education	Paralel Session

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116	GS.AB-33	Physics Education	Paralel Session
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118	GS.AB-616	Physics Education	Paralel Session
119	GS.AB-666	Physics Education	Paralel Session
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121	GS.AB-39	Science Education	Paralel Session
122	GS.AB-41	Science Education	Paralel Session
123	GS.AB-42	Science Education	Paralel Session
124	GS.AB-216	Science Education	Paralel Session
125	GS.AB-218	Science Education	Paralel Session

No	ABS ID	Topic	Session
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130	GS.AB-328	Science Education	Paralel Session
131	GS.AB-374	Science Education	Paralel Session
132	GS.AB-384	Science Education	Paralel Session
133	GS.AB-542	Science Education	Paralel Session
134	GS.AB-554	Science Education	Paralel Session
135	GS.AB-646	Science Education	Paralel Session
136	GS.AB-18	Science, Technology, Engineering, and Mathematics (STEM) Education	Paralel Session
137	GS.AB-63	Science, Technology, Engineering, and Mathematics (STEM) Education	Paralel Session
138	GS.AB-64	Science, Technology, Engineering, and Mathematics (STEM) Education	Paralel Session
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154	GS.AB-404	Science, Technology, Engineering, and Mathematics (STEM) Education	Paralel Session
155	GS.AB-411	Science, Technology, Engineering, and Mathematics (STEM) Education	Paralel Session
156	GS.AB-418	Science, Technology, Engineering, and Mathematics (STEM) Education	Paralel Session
157	GS.AB-478	Science, Technology, Engineering, and Mathematics (STEM) Education	Paralel Session
8	GS.AB-34	Current Issues in Educational Technology (CIE)	Paralel Session
15	GS.AB-210	Current Issues in Educational Technology (CIE)	Paralel Session
16	GS.AB-214	Current Issues in Educational Technology (CIE)	Paralel Session
22	GS.AB-605	Current Issues in Educational Technology (CIE)	Paralel Session
30	GS.AB-14	IT-Professional and Vocational Education in Information Technology (IVET)	Paralel Session
160	GS.AB-482	Biology Education	Paralel Session
162	GS.AB-586	Chemistry Education	Paralel Session
166	GS.AB-121	Current Issues in Educational Technology (CIE)	Paralel Session
170	GS.AB-337	Current Issues in Educational Technology (CIE)	Paralel Session
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103	GS.AB-454	Others relevant Fields	Paralel Session
158	GS.AB-403	Biology Education	Paralel Session
159	GS.AB-479	Biology Education	Poster
163	GS.AB-55	Current Issues in Educational Technology (CIE)	Poster
165	GS.AB-110	Current Issues in Educational Technology (CIE)	Poster
167	GS.AB-145	Current Issues in Educational Technology (CIE)	Poster
168	GS.AB-189	Current Issues in Educational Technology (CIE)	Poster
169	GS.AB-291	Current Issues in Educational Technology (CIE)	Poster
171	GS.AB-380	Current Issues in Educational Technology (CIE)	Poster
172	GS.AB-400	Current Issues in Educational Technology (CIE)	Poster

No	ABS ID	Topic	Session
173	GS.AB-453	Current Issues in Educational Technology (CIE)	Poster
174	GS.AB-259	Informatics and ICT at Higher Education (IHE)	Poster
175	GS.AB-312	Informatics and ICT at Higher Education (IHE)	Poster
176	GS.AB-448	Informatics and ICT at Higher Education (IHE)	Poster
177	GS.AB-466	Informatics and ICT at Higher Education (IHE)	Poster
178	GS.AB-86	IT-Professional and Vocational Education in Information Technology (IVET)	Poster
179	GS.AB-107	IT-Professional and Vocational Education in Information Technology (IVET)	Poster
180	GS.AB-130	IT-Professional and Vocational Education in Information Technology (IVET)	Poster
181	GS.AB-144	IT-Professional and Vocational Education in Information Technology (IVET)	Poster
182	GS.AB-166	IT-Professional and Vocational Education in Information Technology (IVET)	Poster
183	GS.AB-212	IT-Professional and Vocational Education in Information Technology (IVET)	Poster
184	GS.AB-330	IT-Professional and Vocational Education in Information Technology (IVET)	Poster
185	GS.AB-339	IT-Professional and Vocational Education in Information Technology (IVET)	Poster
186	GS.AB-370	IT-Professional and Vocational Education in Information Technology (IVET)	Poster
187	GS.AB-376	IT-Professional and Vocational Education in Information Technology (IVET)	Poster
188	GS.AB-382	IT-Professional and Vocational Education in Information Technology (IVET)	Poster
189	GS.AB-89	Mathematics Education	Poster
191	GS.AB-228	Mathematics Education	Poster
192	GS.AB-253	Mathematics Education	Poster
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212	GS.AB-658	Others relevant Fields	Poster
213	GS.AB-681	Others relevant Fields	Poster
214	GS.AB-98	Physics Education	Poster
215	GS.AB-168	Physics Education	Poster
216	GS.AB-526	Physics Education	Poster
217	GS.AB-224	Science Education	Poster
218	GS.AB-530	Science Education	Poster
219	GS.AB-553	Science Education	Poster
220	GS.AB-607	Science Education	Poster
221	GS.AB-623	Science Education	Poster
222	GS.AB-635	Science Education	Poster
223	GS.AB-664	Science Education	Poster
224	GS.AB-671	Science Education	Poster
225	GS.AB-684	Science Education	Poster
226	GS.AB-80	Science, Technology, Engineering, and Mathematics (STEM) Education	Poster
227	GS.AB-178	Science, Technology, Engineering, and Mathematics (STEM) Education	Poster
228	GS.AB-205	Science, Technology, Engineering, and Mathematics (STEM) Education	Poster
229	GS.AB-261	Science, Technology, Engineering, and Mathematics (STEM) Education	Poster
230	GS.AB-273	Science, Technology, Engineering, and Mathematics (STEM) Education	Poster

No	ABS ID	Topic	Session
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234	GS.AB-495	Science, Technology, Engineering, and Mathematics (STEM) Education	Poster
235	GS.AB-518	Science, Technology, Engineering, and Mathematics (STEM) Education	Poster
236	GS.AB-549	Science, Technology, Engineering, and Mathematics (STEM) Education	Poster
237	GS.AB-629	Science, Technology, Engineering, and Mathematics (STEM) Education	Poster
238	GS.AB-639	Science, Technology, Engineering, and Mathematics (STEM) Education	Poster
239	GS.AB-645	Science, Technology, Engineering, and Mathematics (STEM) Education	Poster
18	GS.AB-497	Current Issues in Educational Technology (CIE)	Round Table
24	GS.AB-79	Informatics and ICT at Higher Education (IHE)	Round Table
56	GS.AB-485	Mathematics Education	Round Table
161	GS.AB-683	Biology Education	Round Table
164	GS.AB-91	Current Issues in Educational Technology (CIE)	Round Table
240	GS.AB-46	Biology Education	Round Table
241	GS.AB-186	Biology Education	Round Table
242	GS.AB-201	Biology Education	Round Table
243	GS.AB-202	Biology Education	Round Table
244	GS.AB-204	Biology Education	Round Table
245	GS.AB-342	Biology Education	Round Table
246	GS.AB-377	Biology Education	Round Table
247	GS.AB-484	Biology Education	Round Table
248	GS.AB-496	Biology Education	Round Table
249	GS.AB-594	Biology Education	Round Table
250	GS.AB-233	Chemistry Education	Round Table
251	GS.AB-247	Chemistry Education	Round Table
252	GS.AB-9	Current Issues in Educational Technology (CIE)	Round Table

No	ABS ID	Topic	Session
253	GS.AB-20	Current Issues in Educational Technology (CIE)	Round Table
254	GS.AB-50	Current Issues in Educational Technology (CIE)	Round Table
255	GS.AB-54	Current Issues in Educational Technology (CIE)	Round Table
256	GS.AB-101	Current Issues in Educational Technology (CIE)	Round Table
257	GS.AB-118	Current Issues in Educational Technology (CIE)	Round Table
258	GS.AB-122	Current Issues in Educational Technology (CIE)	Round Table
259	GS.AB-128	Current Issues in Educational Technology (CIE)	Round Table
260	GS.AB-131	Current Issues in Educational Technology (CIE)	Round Table
261	GS.AB-134	Current Issues in Educational Technology (CIE)	Round Table
262	GS.AB-159	Current Issues in Educational Technology (CIE)	Round Table
263	GS.AB-215	Current Issues in Educational Technology (CIE)	Round Table
264	GS.AB-338	Current Issues in Educational Technology (CIE)	Round Table
265	GS.AB-363	Current Issues in Educational Technology (CIE)	Round Table
266	GS.AB-379	Current Issues in Educational Technology (CIE)	Round Table
267	GS.AB-417	Current Issues in Educational Technology (CIE)	Round Table
268	GS.AB-423	Current Issues in Educational Technology (CIE)	Round Table
269	GS.AB-442	Current Issues in Educational Technology (CIE)	Round Table
270	GS.AB-467	Current Issues in Educational Technology (CIE)	Round Table
271	GS.AB-477	Current Issues in Educational Technology (CIE)	Round Table
272	GS.AB-486	Current Issues in Educational Technology (CIE)	Round Table
273	GS.AB-507	Current Issues in Educational Technology (CIE)	Round Table
274	GS.AB-556	Current Issues in Educational Technology (CIE)	Round Table
275	GS.AB-565	Current Issues in Educational Technology (CIE)	Round Table
276	GS.AB-570	Current Issues in Educational Technology (CIE)	Round Table
277	GS.AB-578	Current Issues in Educational Technology (CIE)	Round Table
278	GS.AB-608	Current Issues in Educational Technology (CIE)	Round Table
279	GS.AB-647	Current Issues in Educational Technology (CIE)	Round Table
280	GS.AB-15	Informatics and ICT at Higher Education (IHE)	Round Table
281	GS.AB-32	Informatics and ICT at Higher Education (IHE)	Round Table
282	GS.AB-73	Informatics and ICT at Higher Education (IHE)	Round Table
283	GS.AB-99	Informatics and ICT at Higher Education (IHE)	Round Table

No	ABS ID	Topic	Session
284	GS.AB-100	Informatics and ICT at Higher Education (IHE)	Round Table
285	GS.AB-182	Informatics and ICT at Higher Education (IHE)	Round Table
286	GS.AB-420	Informatics and ICT at Higher Education (IHE)	Round Table
287	GS.AB-456	Informatics and ICT at Higher Education (IHE)	Round Table
288	GS.AB-481	Informatics and ICT at Higher Education (IHE)	Round Table
289	GS.AB-505	Informatics and ICT at Higher Education (IHE)	Round Table
290	GS.AB-538	Informatics and ICT at Higher Education (IHE)	Round Table
291	GS.AB-29	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
292	GS.AB-67	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
293	GS.AB-68	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
294	GS.AB-177	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
295	GS.AB-220	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
296	GS.AB-248	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
297	GS.AB-271	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
298	GS.AB-305	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
299	GS.AB-309	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
300	GS.AB-316	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
301	GS.AB-317	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
302	GS.AB-321	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
303	GS.AB-345	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
304	GS.AB-350	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
305	GS.AB-368	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
306	GS.AB-369	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
307	GS.AB-375	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table

No	ABS ID	Topic	Session
308	GS.AB-396	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
309	GS.AB-409	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
310	GS.AB-421	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
311	GS.AB-434	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
312	GS.AB-437	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
313	GS.AB-440	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
314	GS.AB-452	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
315	GS.AB-509	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
316	GS.AB-522	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
317	GS.AB-584	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
318	GS.AB-630	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
319	GS.AB-679	IT-Professional and Vocational Education in Information Technology (IVET)	Round Table
320	GS.AB-22	Mathematics Education	Round Table
321	GS.AB-176	Mathematics Education	Round Table
322	GS.AB-234	Mathematics Education	Round Table
323	GS.AB-323	Mathematics Education	Round Table
324	GS.AB-333	Mathematics Education	Round Table
325	GS.AB-357	Mathematics Education	Round Table
326	GS.AB-406	Mathematics Education	Round Table
327	GS.AB-444	Mathematics Education	Round Table
328	GS.AB-527	Mathematics Education	Round Table
329	GS.AB-528	Mathematics Education	Round Table
330	GS.AB-531	Mathematics Education	Round Table
331	GS.AB-560	Mathematics Education	Round Table
332	GS.AB-587	Mathematics Education	Round Table
333	GS.AB-609	Mathematics Education	Round Table

No	ABS ID	Topic	Session
334	GS.AB-651	Mathematics Education	Round Table
335	GS.AB-665	Mathematics Education	Round Table
336	GS.AB-678	Mathematics Education	Round Table
337	GS.AB-11	Others relevant Fields	Round Table
338	GS.AB-17	Others relevant Fields	Round Table
339	GS.AB-71	Others relevant Fields	Round Table
340	GS.AB-92	Others relevant Fields	Round Table
341	GS.AB-93	Others relevant Fields	Round Table
342	GS.AB-114	Others relevant Fields	Round Table
343	GS.AB-123	Others relevant Fields	Round Table
344	GS.AB-124	Others relevant Fields	Round Table
345	GS.AB-191	Others relevant Fields	Round Table
346	GS.AB-199	Others relevant Fields	Round Table
347	GS.AB-207	Others relevant Fields	Round Table
348	GS.AB-209	Others relevant Fields	Round Table
349	GS.AB-222	Others relevant Fields	Round Table
350	GS.AB-225	Others relevant Fields	Round Table
351	GS.AB-249	Others relevant Fields	Round Table
352	GS.AB-266	Others relevant Fields	Round Table
353	GS.AB-269	Others relevant Fields	Round Table
354	GS.AB-278	Others relevant Fields	Round Table
355	GS.AB-280	Others relevant Fields	Round Table
356	GS.AB-281	Others relevant Fields	Round Table
357	GS.AB-283	Others relevant Fields	Round Table
358	GS.AB-285	Others relevant Fields	Round Table
359	GS.AB-398	Others relevant Fields	Round Table
360	GS.AB-405	Others relevant Fields	Round Table
361	GS.AB-407	Others relevant Fields	Round Table
362	GS.AB-439	Others relevant Fields	Round Table
363	GS.AB-488	Others relevant Fields	Round Table
364	GS.AB-520	Others relevant Fields	Round Table

No	ABS ID	Topic	Session
365	GS.AB-529	Others relevant Fields	Round Table
366	GS.AB-534	Others relevant Fields	Round Table
367	GS.AB-537	Others relevant Fields	Round Table
368	GS.AB-540	Others relevant Fields	Round Table
369	GS.AB-543	Others relevant Fields	Round Table
370	GS.AB-548	Others relevant Fields	Round Table
371	GS.AB-551	Others relevant Fields	Round Table
372	GS.AB-552	Others relevant Fields	Round Table
373	GS.AB-558	Others relevant Fields	Round Table
374	GS.AB-567	Others relevant Fields	Round Table
375	GS.AB-575	Others relevant Fields	Round Table
376	GS.AB-579	Others relevant Fields	Round Table
377	GS.AB-580	Others relevant Fields	Round Table
378	GS.AB-592	Others relevant Fields	Round Table
379	GS.AB-593	Others relevant Fields	Round Table
380	GS.AB-595	Others relevant Fields	Round Table
381	GS.AB-597	Others relevant Fields	Round Table
382	GS.AB-611	Others relevant Fields	Round Table
383	GS.AB-618	Others relevant Fields	Round Table
384	GS.AB-619	Others relevant Fields	Round Table
385	GS.AB-621	Others relevant Fields	Round Table
386	GS.AB-624	Others relevant Fields	Round Table
387	GS.AB-625	Others relevant Fields	Round Table
388	GS.AB-631	Others relevant Fields	Round Table
389	GS.AB-633	Others relevant Fields	Round Table
390	GS.AB-638	Others relevant Fields	Round Table
391	GS.AB-641	Others relevant Fields	Round Table
392	GS.AB-649	Others relevant Fields	Round Table
393	GS.AB-650	Others relevant Fields	Round Table
394	GS.AB-654	Others relevant Fields	Round Table
395	GS.AB-667	Others relevant Fields	Round Table

No	ABS ID	Topic	Session
396	GS.AB-668	Others relevant Fields	Round Table
397	GS.AB-670	Others relevant Fields	Round Table
398	GS.AB-672	Others relevant Fields	Round Table
399	GS.AB-674	Others relevant Fields	Round Table
400	GS.AB-680	Others relevant Fields	Round Table
401	GS.AB-685	Others relevant Fields	Round Table
402	GS.AB-156	Physics Education	Round Table
403	GS.AB-238	Physics Education	Round Table
404	GS.AB-240	Physics Education	Round Table
405	GS.AB-250	Physics Education	Round Table
406	GS.AB-251	Physics Education	Round Table
407	GS.AB-292	Physics Education	Round Table
408	GS.AB-443	Physics Education	Round Table
409	GS.AB-532	Physics Education	Round Table
410	GS.AB-19	Science Education	Round Table
411	GS.AB-72	Science Education	Round Table
412	GS.AB-102	Science Education	Round Table
413	GS.AB-108	Science Education	Round Table
414	GS.AB-135	Science Education	Round Table
415	GS.AB-139	Science Education	Round Table
416	GS.AB-152	Science Education	Round Table
417	GS.AB-255	Science Education	Round Table
418	GS.AB-270	Science Education	Round Table
419	GS.AB-272	Science Education	Round Table
420	GS.AB-392	Science Education	Round Table
421	GS.AB-416	Science Education	Round Table
422	GS.AB-422	Science Education	Round Table
423	GS.AB-431	Science Education	Round Table
424	GS.AB-445	Science Education	Round Table
425	GS.AB-470	Science Education	Round Table
426	GS.AB-513	Science Education	Round Table


No	ABS ID	Topic	Session
427	GS.AB-545	Science Education	Round Table
428	GS.AB-555	Science Education	Round Table
429	GS.AB-583	Science Education	Round Table
430	GS.AB-588	Science Education	Round Table
431	GS.AB-601	Science Education	Round Table
432	GS.AB-614	Science Education	Round Table
433	GS.AB-617	Science Education	Round Table
434	GS.AB-637	Science Education	Round Table
435	GS.AB-642	Science Education	Round Table
436	GS.AB-657	Science Education	Round Table
437	GS.AB-48	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
438	GS.AB-62	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
439	GS.AB-70	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
440	GS.AB-75	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
441	GS.AB-113	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
442	GS.AB-116	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
443	GS.AB-129	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
444	GS.AB-151	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
445	GS.AB-203	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
446	GS.AB-226	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
447	GS.AB-231	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
448	GS.AB-242	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
449	GS.AB-246	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
450	GS.AB-258	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
451	GS.AB-287	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
452	GS.AB-301	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table

No	ABS ID	Topic	Session
453	GS.AB-303	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
454	GS.AB-320	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
455	GS.AB-329	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
456	GS.AB-336	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
457	GS.AB-343	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
458	GS.AB-353	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
459	GS.AB-414	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
460	GS.AB-449	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
461	GS.AB-468	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
462	GS.AB-489	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
463	GS.AB-491	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
464	GS.AB-494	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
465	GS.AB-503	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
466	GS.AB-523	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
467	GS.AB-598	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
468	GS.AB-602	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
469	GS.AB-612	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
470	GS.AB-620	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
471	GS.AB-626	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
472	GS.AB-682	Science, Technology, Engineering, and Mathematics (STEM) Education	Round Table
473	GS.AB-361	Others relevant Fields	Round Table
474	GS.AB-381	Others relevant Fields	Round Table

Padang, 09 March 2019


 Chairman

No	ABS ID	Topic	Session
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Prof. Dr. M. Zaim, M.Hum